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TABLES

FOR THE

REDUCTION OF METEOROLOGICAL OBSERVATIONS IN INDIA

TO ACCOMPANY

THE "INDIAN METEOROLOGIST'S VADE-MECUM,"

By H. F. BLANFORD,

METEOROLOGICAL REPORTER TO THE GOVERNMENT OF INDIA.

CALCUTTA:

THACKER, SPINK, & CO., 5, GOVERNMENT PLACE.

BOMBAY: THACKER, & CO., RAMPART ROW.

1877.

CALCUTTA:

PRINTED BY THE SUPERINTENDENT OF GOVERNMENT PRINTING, 8, HASTINGS STREET.

PREFATORY NOTE.

Meteorological observers in India. Those for the reduction of the barometric readings to the freezing point and to sea-level, are old and well-known tables, which may be found in many other publications of a similar character.* But any apprometric tables have all been recomputed and adapted to the mean latitude of 22°.† The computation of the vapour tension tables has been much facilitated by the use of that very valuable and ingenious instrument, the arithmometer, (the invention of M. Thomas de Colmar). The use of this instrument has admitted of the calculation of the differences being carried out to eight places of decimals, when three or four only were required for the tables, and without an appreciable increase of labour; and greater accuracy has thereby been secured.

For the computation of the tables for use with the psychrometer, I have preferred August's formula as corrected by Regnault, having found by experiments with Regnault's hygrometer in the dry atmosphere of the interior of India and at high temperatures, that the results computed by that formula are the most satisfactory.

Table I is reprinted from Colonel James's 'Instructions,' which is more comprehensive than others.
 The relative humidity tables are the same for all latitudes.

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	expressed in inches of mercury in latitude 22°

CORRIGENDA IN TABLES.

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Page 3, line 22, for '0064, read '007.
                23, ,, 30 \times \cdot 108, read 30 + \cdot 108.
                24, "
       3,
                         00064 \times 108 = 0006912, read 007 \times 108 = 000756.
           ,,
                15, " ·351, read ·352.
       5, lines 18, 30 and 33, for '335, read '337.
       5, line 23, for Table IV, read Table V.
       6, " 14, " 7·06, read 7·05.
      18, 4th column, line 9, for 0.621, read .0621.
                  The vapour tension for 7.6°.
     18, last column, line 9, for '2246, read '2846.
                   This is the vapour tension at 43.6.
     19, column 14, for 1.9434, read 1.3434.
                    This is the vapour tension at 88.4.
     22, t'=52^{\circ} t-t'=2.5, for .256, read .356.
     23, t'=40^{\circ} t-t'=17.5, , 0.19, ,
                                                 .019.
 ,, 27, t'=67^{\circ} t-t'=19.5, , \cdot 412, ,
                                                ·402.
    27, t' = 72^{\circ} t - t' = 26.5, , 427, ,
                                                 ·429.
   51, t'=70^{\circ} t-t'=4^{\circ}, 4.5°, 5°, insert omitted numbers 81, 79, 77.
    51, t'=76^{\circ} t-t'=0, for 110, read 100.
    52, t' = 72^{\circ} t - t' = 15.5, ,,
                                     4,
                                               45.
    77, t' = 32^{\circ} t - t' = 17.5, ,,
                                               1.
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N. B.—The above corrections should be made in ink in the Tables, before they are used.

TABLES

FOR THE

REDUCTION OF METEOROLOGICAL OBSERVATIONS IN INDIA.

USE OF THE TABLES.

TABLE I gives the corrections to be applied to the actual reading of a barometer with a brass scale at any given temperature, in order to find the height of the column exerting the same pressure at the temperature of melting ice. The formula by which such a table is computed is given at page 15.

If the reading of the barometer is within + 0·1 or - 0·1 of the value at the top of any column, find, in the first column, the temperature corresponding to that of the attached thermometer, and the figures in that line in the column of the observed pressure, is the correction. This is to be deducted if the temperature is above 28°, and to be added if below 29°.

If the barometer reading is not within 0.1 of the value which heads one of the columns, but the temperature of the attached thermometer is in integral degrees, the correction is found by interpolation according to the following rule:—

Rule.—When the barometric reading to be reduced is intermediate between two values represented by columns in the Table, take from the Table the corrections for the pressures next above and below the reading; multiply the difference of these corrections by twice the difference of the barometric reading to be reduced and the lower of the tabular headings. The result, added to the tabular correction for the lower tabular pressure, gives the correction required.

EXAMPLE.—Let the barometric reading be 29.720 and the temperature of the attached thermometer 85°,

From table with arguments 29.5 and 85 take — 0.149 30.0 and 85 take — 0.151

Difference — 0.002

29.720 — 29.5 = 0.220
— .002 × .440 = — .00088
— (.149 + .00088) = — .14988
instead of which we take — .150
29.720
— .150

29.570 = reduced reading.

If the reading of the attached thermometer is within + 0.2 or - 0.2 of an integral degree, the tabular correction for the integral degree may be taken. Otherwise, when great accuracy is required, a value is to be found by interpolation according to the rule above given, substituting the words 'thermometric' for 'barometric,' 'temperature' for 'pressure,' 'lines' for 'columns,' &c., and omitting the word 'twice' in the fourth line.

If neither the reading of the barometer nor that of the attached thermometer corresponds to those given in the tables within the limits already assigned, then a double process of interpolation is requisite, thus—

Example.—Let the barometer reading be 29.720 and that of the attached thermometer 85.6. Having found, as above, the correction—14.988 for temperature 85., obtain that for 86. by a similar process. This is found to be 15232. The difference is .00244.

$$^{\cdot 00244}$$
 × 0·6 = $^{\cdot 001464}$
 $-(\cdot 14988 + \cdot 001464) = -\cdot 151344$
instead of which we take - ·151
 $29\cdot 720$
- $\frac{\cdot 151}{29\cdot 569}$ = reduced reading.

In general, interpolation for fractions of a degree is an unnecessary refinement.

TABLE II.—This table gives the height of the column of mercury, at 32° Fahrenheit, the weight of which equals that of a column of air of a given height and temperature, when the pressure at the sea-level is 30 inches. It is used for reducing to their equivalent values at sea-level, the barometric readings recorded at stations not more than 500 feet above that level.

To use the table, look down the first column for the value expressing the ascertained elevation of the barometer cistern; and along the headings of the subsequent columns for the temperature corresponding to the observed temperature of the external air (not that of the attached thermometer). At the intersection of that line and column, will be found the figures expressing the decimals of an inch, which are to be added to the barometric reading (previously reduced for temperature) to give its sea-level equivalent.

If this sea-level value is 30 inches, no further operation is required; but if it be less or more than 30 inches, a further correction is to be applied, which is obtained from the right-hand column. Let the value obtained by the first process be 30-d. Multiply by d the figures in the last column, on the line of the given elevation, and deduct the product from the value first found. If d is positive,—that is, if the value first found is higher than 30 inches,—then the correction is to be added.

EXAMPLE.—Required to find the sea-level equivalent of 29.403 (reduced reading) at a station 240 feet above the sea, the temperature of the external air being 80°.

With the arguments 240 feet (first column) and 80° (heading of column), take out the tabular value '248:

29·403 ·248 29·651

29.651 = 30 — .349
The value in the last column on line 240 feet is .009
.009 × .349 = .003141

instead of which we take '003 and deduct 29:651 '003

29.648

which is the sea-level value required.

If the temperature of the air and the elevation of the barometer are intermediate between the tabular values given, the correction is obtained by interpolation, as in the case of the previous table. EXAMPLE.—Required the sea-level value of 29.916 at a station 184 feet above the sea-level, the temperature of the external air being 73.4°.

In line 180 and columns 70 and 80, take out the values 189 and 185; the difference is -004

for the higher temperature:

$$\frac{-\frac{.004}{10} \times \frac{3.4}{10}}{10} = -\frac{.00136}{.189}$$

which is the correction for 180 feet.

In line 190 and columns 70° and 80°, take out 200 and 196; difference = - 004, as before: 200 - 00136 = 19864

which is the correction for 190 feet.

$$\begin{array}{l} \cdot 19864 - 18764 = \cdot 011 \\ \cdot \frac{011 \times 4}{10} = \cdot 0044; \end{array}$$

which is the correction of 4 feet: adding this to the value found for 180 feet

instead of which we take '192

The value for 184 feet in the last column (obtained by interpolation between those for 180 and 190 feet) is '0064; and

which is the sea-level value required.

It saves much trouble if a table is computed once for all for each station by the method above given; so that (the elevation being constant) the correction required may be taken out at once for a given pressure and temperature. The following is given as an example of such a table. It is for the observatory at Goalpára, where the barometer cistern is 386 feet above mean sea-level:—

temp.	Barometer reading.					temp.	Barometer reading.					
Air te	29-0	29·2	29.4	29.6	29-8	Air te	29.0	29-2	29.4	29.6	29.8	
40 41 42 48 44 45 46 47 48 49 50 51 52 53	·424 ·428 ·422 ·420 ·419 ·418 ·417 ·416 ·415 ·415 ·414 ·413 ·412 ·411	·427 ·426 ·426 ·424 ·423 ·422 ·421 ·420 ·419 ·418 ·417 ·416 ·415 ·415	*429 *428 *427 *426 *425 *424 *423 *422 *421 *420 *419 *418 *417	·432 ·431 ·430 ·429 ·428 ·427 ·426 ·425 ·424 ·423 ·421 ·420 ·419	·435 ·434 ·433 ·432 ·431 ·430 ·429 ·429 ·428 ·427 ·426 ·425 ·424 ·423 ·422	55 56 57 58 59 60 61 62 63 64 65 66 67 68	·410 ·409 ·408 ·408 ·407 ·406 ·405 ·404 ·403 ·402 ·402 ·400 ·399 ·398	·413 ·412 ·411 ·409 ·409 ·408 ·406 ·406 ·404 ·404 ·404 ·403 ·402 ·401	416 415 414 413 412 411 410 409 408 407 406 405 405	*419 *418 *417 *416 *415 *414 *413 *412 *411 *410 *409 *408 *407	-421 -421 -420 -419 -418 -417 -416 -415 -414 -414 -413 -412 -411 -410 -409	

Such a table should, of course, be extended to such limits of temperature and pressure as will comprehend the highest and lowest readings recorded at the station; and it may be further elaborated by interpolating the values for the alternate tenths of an inch, &c., according to convenience.

It is to be observed, in the use of all such tables, that the external temperature refers, strictly speaking, to the mean temperature of the column of air below the station down to sea-level. This may be obtained by adding 0.1 for every 90 feet of elevation to the air temperature observed at the station. But the correction thus introduced is scarcely appreciable in the result.

The table cannot be used for elevations greater than 500 feet. At higher stations it is better to use the table based on Laplace's barometric formula, which has been computed by Captain Allen Cunningham, R.E., published in the Roorkee Professional Papers on Indian Engineering, second series, No. CXIII.

TABLE III.—This table gives the tension of saturated aqueous vapour, in decimals of an inch of mercury at the temperature 32°, in latitude 22°, at the level of the sea. It has been reduced from the original table for the latitude of Dublin, computed by the Rev. Robert Dixon; by correcting his values for the difference of gravity, viz., multiplying them by the constant factor 1.00286184.

The psychrometric tables which follow are all based on this table, and the com-

putation has been chiefly made by the aid of the arithmometer.

The chief use of this table is in computing the humidity and vapour tension, from observations of the dry and wet bulb thermometers, by August's or Apjohn's formula; and for finding the dew point corresponding to that vapour tension.

August's formula, which has been used in computing the Tables IV to XI, is as follows:

For temperatures of the wet bulb below 32°,

$$x = f' - \frac{480}{1240} \frac{(t-t')}{2} h$$
 and for temperatures of wet bulb above 32°
$$x = f' - \frac{480}{1240} \frac{(t-t')}{2} h$$

$$x = f' - \frac{480(t-t')}{1130-t'} h$$

wherein t and t' are the temperatures of the dry and wet bulb thermometers respectively, in Fahr. degrees, f' the tension of vapour at temperature t', h the reading of the barometer in inches, and x the tension of the vapour present in the air at the time of the observation.

The value of f' corresponding to t' is given by Table III, taking t' as the argument; and when x has been computed, the temperature which, in Table III, corresponds to x, is that of the dew point.

EXAMPLE.—Required the vapour tension and dew point of the atmosphere when the readings of the dry and wet bulb thermometers are 98°1 and 63°.4, and the barometer reading (reduced to 32°) 29.763.

Here
$$t = 98^{\circ} \cdot 1$$
, $t' = 63^{\circ} \cdot 4$, and $(t-t') = 34 \cdot 7$, $h = 29 \cdot 763$ and, from the table, $f' = \cdot 5953$

$$x = \cdot 5953 - \frac{\cdot 480 \times 34 \cdot 7}{1130 - 63 \cdot 4} \cdot 29 \cdot 763 = \cdot 1305$$

which is the vapour tension required.

The temperature in the table, corresponding to '1304, is 24.4. This, therefore, is the computed dew point of the air at the time of the observation.

Tables IV, VI, VIII and X are given to save the trouble of calculation, and show at once the vapour tension corresponding to any given readings of the dry and wet bulb thermometers, when the pressures are respectively 29.7, 27.7, 25.8 and 23.4, these being the average pressures at stations (IV) at and near the sea-level, (VI) at 2,000 feet, (VIII) at 4,000 feet and (X) at 7,000 feet respectively. For all ordinary

purposes the vapour tensions thus computed to a constant mean barometric pressure

are sufficiently exact.

The use of the tables is very simple. Having corrected the readings of the dry and wet bulb thermometers for their errors of graduation, deduct that of the wet bulb t' from that of the dry bulb t. Then, in the left-hand column of the table, look out the temperature of the wet bulb, and in that line and in the column the heading of which is the difference t-t' will be found the vapour tension required.

Example.—At Házáribágh 2,010 feet above sea-level, the corrected temperature of the dry bulb is 103.2 and that of the wet bulb 70.5. Required the vapour tension.

Here
$$t-t' = 32.7$$

 $t' = 70.5$

and the station being 2,010 feet above sea-level, we use Table VI.

Ву	the table in	line 70° and	column	32.5,	vapour tension	=	·327
-	Ditto	70°		33.			.321
	Ditto	71°	ditto	32.5.	ditto	=	.351
	Ditto	71°	ditto	33.	ditto	_	.346

from which four values, by interpolating for the tenths of degrees in the manner already shown for the barometric Table I, we obtain '335, which is the vapour tension required.

These tables, together with Table III, may be used to find the dew point of the air from observations of the dry and wet bulb thermometers. Having found the tension of vapour in the air by the help of the former, turn to Table III, and the temperature corresponding to that tension is the dew point required.

Tables IV, VII, IX and XI are used in the same way as the foregoing, and give the relative humidity of the air corresponding to any observed temperatures of the

dry and wet bulb thermometers for the same four values of mean pressure.

By the 'relative humidity' of the air is understood the proportion which the weight of water vapour present in the air bears to that which would saturate it at the temperature of the dry bulb. This, by Boyle's law, is directly as the proportion which the actual vapour tension bears to that of saturation, and the ratio is expressed as a percentage of the latter. Thus, in the example above given, '335 is the actual vapour tension, and, by extending Table III up to the temperature of 103.2, we find that the vapour tension of saturation at that temperature is 2.1156. Hence the relative humidity

 $\frac{.335 \times 100}{2.1156} = 16$ nearly

which is the number given in Table VII for wet bulb temperature 70.5, and a difference of 32.7.

Table XII shows the weight of vapour (in Troy grains) in a cubic foot of air at different temperatures, when the vapour tension is given, the vapour tensions being expressed in terms of the gravitation of a column of mercury in latitude 22° . In computing this table, I have assumed the weight of a cubic foot of dry air at 30 inches pressure (in the latitude of Dublin), and at 32° Fahrenheit, to be 563 grains; and that water vapour weighs $\frac{9}{14\cdot45}$ as much as dry air at the same pressure and temperature. Also, I have taken the expansion of water vapour at the same value as that of air, viz., $\frac{1}{4\cdot9\cdot5}$ of the volume at 32° for each degree Fahrenheit. Hence at any temperature t the weight x of one cubic foot of vapour at pressure p is

$$x = \frac{563^{\circ} \times 493}{461 + t} \times \frac{9}{14^{\circ}45} \times \frac{p}{30 \times 100286}$$
$$= 5746^{\circ}037 \frac{p}{481 + t}$$

The values have been computed for even thousandths, hundredths and tenths of an inch, and for one and two inches of pressure; and for the temperature of the

freezing point and successive decrements and increments of 5 degrees between 2° and 127°; by the addition of which, the weights corresponding to all pressures up to 3 inches may be easily calculated.

EXAMPLE.—The tension of vapour in the air is found to be 679, and the temperature 93°.

What is the weight of vapour in the cubic foot?

For '6 take 6:23 and 6:18, which are the values for that pressure in the columns for 92° and 97°; for '07 the tensions 0:73 and 0:72 from the same columns; and for '009 the value 0:09 from the same columns.

Then, adding separately for the two temperatures—

6·23 ·73	6·18 ·72
.09	.09
7:05	6.99

the sums 7.05 and 6.99 represent the weights corresponding to 92° and 97°. The difference is 0.06. One-fifth of this deducted from 7.06, or four-fifths added to 6.99, gives 7.04 grains for the temperature 93°; which is the answer required.

TABLE I,
For reducing Observations of the Barometer to the Temperature of 32° Fahrenheit.

This Table is applicable only to Barometers with Brass Scales.

			REDUC	TION O	F THE	BAROM	ETER T	O 32º F	AHREN	HEIT.			
Tempera- ture, Fahrenheit.		Нвіснт	OF THE	Baromet	er in I	CHES, A	ND Corr	ECTION I	n Decim	LLS OF A	n Inch.		Tempera- ture, Fahrenheit
	13.5	14.0	14.5	15.0	15.2	16.0	16 5	17.0	17.5	18.0	18:5	19.0	
-10	+*047	+.049	+.050	+ 052	+ '054	+*056	+.057	+.059	+.061	+.062	+ '064	+.066	, 10
9	046	*047	.049	051	052	.054	*056	'057	-059	061	*062	'064	9
8	*044	.046	.048	.049	.051	.023	.054	.056	.058	059	*061	*062	8
7	.048	.045	.046	•048	.050	.051	.053	054	.056	.058	.059	.061	7
6	.042	.043	*045	.047	048	.050	.021	.053	054	1056	.057	*059	6
5	•041	•042	.044	.045	.047	048	*050	'051	.053	051	.056	*057	5
4	'040	•041	.042	.044	*045	047	048	'050	.051	1053	054	.056	4
8	.038	•040	*041	.013	.044	045	.047	*048	.050	.051	•052	.054	3
2	.037	.038	.040	.041	.013	044	•045	047	.018	.049	.051	.052	2
-1	.036	-037	.039	•040	041	·0 1 2	·044	'045	*046	'048	049	•050	-1
0	+.035	+.036	+:037	+.038	+.040	+'041	+*012	+.044	+ 045	+ '046	+ '047	+.049	0
+1	.033	.035	*036	.037	.038	040	*041	042	043	.015	046	047	+1
2	.032	-033	*035	.036	.037	.038	*039	041	042	.013	014	045	2
3	-031	.032	.033	.034	.036	'037	.038	.039	.040	.041	042	041	3
4	-030	031	.032	•033	034	.035	.036	.037	•039	*040	041	.012	4
5	.029	.030	.031	.032	.033	1034	.035	.036	.037	.038	.039	*010	5
6	.027	·028	-029	.030	'031	.032	.033	.034	.035	.036	.037	.038	6
7	.026	.027	.028	029	.030	.031	.032	.033	.031	-035	*036	.037	7
8	•025	.026	.027	-028	.029	*029	.030	.031	.032	.033	.034	'035	8
9	'024	.025	.025	'026	•027	.028	*029	•030	.031	032	.032	.033	9
10	+.022	+.023	+.024	+.025	+ .026	+:027	+'027	+.028	+.029	+.030	+.031	+.032	10
11	021	.022	028	024	024	025	026	027	.028	028	029	*030	11
12	•020	021	*022	.022	.023	.024	024	025	.026	.027	*027	'028	12
18	.019	•020	.020	.021	.022	022	.023	024	024	025	026	027	13
15 14	-018	·018	*019	020	*020	'021	023	022	•023	023	024	'025	14
15	.016	.017	.018	.018	019	'019	.020	-021	020	-022	.022	023	15
16	.015	-016	.016	.017	.017	.018	.019	-019	.020	.020	021	020	16
17	.014	'014	.015	.016	.016	013	.017	.018	.018	.019	.019	.020	17
18	-013	-013	.014	'014	.015	.012	-016	-016	1017	.017	.017	.018	18
19	.012	.013	012	.013	.013	'014	·014	.012	.012	.012	.018	*016	19
20	+ 010	+:011	+.011	+.011	+:012	+'012	+.013	+.013	+.013	+.014	+:014	+.012	20
20 21	-009	+011	-010	.010	*010	-011	.011	*011	012	012	'012	'013	21
21 22	.008	1008	.008	.009	.009	.009	010	'010	.010	.011	.011	'011	22
22	-007	•007	*007	-007	.008	.008	-008	.008	.00	.009	.009	-009	23
25 24	-005	.008	•006	•006	1006	*006	1007	-007	•007	1007	*007	-008	23
24 25	-004	1004	1005	-005	'005	*005	1005	1005	*006	.008	.008	.006	25
26 26	-008	-008	.003	-003	*008	1004	*004	1004	.004	*004	.004	'004	26
26 27	*002	.002	.003	1002	003	*002	1002	002	002	1002	1003	1003	27
27 28	*001	-002	.002	·001	1002	*002	.002	-002	002	002	.001	'001	28
20 29	-001	001	-001	001	001	-'001	-001	-001	001	001	001	-'001	29
40	- 001	- 001		- 001	001	- 501	- 001	- 001	- 41	_ 551		- 551	

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32

Fahrenheit—(continued).

			REDU	CTION (OF THE	BAROI	METER	TO 32°	FAHRE	NILEIT.			
Tempera- ture, Fahrenheit.		Height	OF THE	BAROMF	TER IN I	NCHES, A	MD CORE	BCTION	N DECIM	IALS OF	an Inch.		Tempera- ture, Fahreuheit
	13.5	14:0	14.5	15.0	15.2	16.0	16.5	17:0	17:5	18:0	18.2	19.0	
o 80	002	002	002	002	002	002	002	002	— ·002	002	'002	003	o 30
81	.003	*003	.003	.003	.003	.003	.001	.001	'004	.004	.004	.004	31
32	.01	*004	*005	'005	*005	*005	'005	.002	*005	1 06	.008	.006	32
58	*005	-006	.006	•006	•006	900	-007	.007	*007	*007	.007	•008	33
34	.007	•007	'007	.007	.008	.008	.008	.008	.009	-009	.000	.008	34
35	*008	.008	.008	•009	.009	.009	•010	*010	.010	.010	.011	.011	35
86	•009	.009	.010	•010	'010	.011	*011	.011	.012	012	.015	.013	36
87	1010	. 011	.011	.011	*012	'012	*013	.013	.013	·01#	.014	•014	37
38	.011	*012	'012	.013	.013	*014	*014	'014	·015	*015	.016	.016	38
39	.013	•013	·014	·014	*015	·015	*016	.016	.016	*017	.017	•018	39
40	·014	·014	 ∙015	015	:016	:016	— :017	018	 ∙018	019	'019	020	40
41	·015	'016	.016	.017	.017	.018	.018	. 019	.020	*020	'021	.021	41
42	•016	*017	.018	.018	.019	.019	*020	.021	'021	*022	.022	.023	42
43	.018	•018	.019	.019	.020	.021	.021	.022	'023	.023	'024	*025	43
44	.019	.019	.020	.021	.022	.023	.023	.021	.021	*025	.028	1026	44
45	•020	*021	.021	.022	.023	.021	*021	.025	.026	.027	.027	.028	45
46	.021	.022	.033	.023	*024	•025	*026	.027	.027	*028	.029	.030	46
47	.053	1023	.024	.025	.026	*026	.027	.028	*029	•030	.031	.031	47
48	*024	·024	.025	.026	.027	*028	*029	1030	*031	.031	.032	1033	48
49	.025	*026	*027	.028	·02 8	.029	•030	.031	-032	*033	*034	.035	4.9
50	'026	027	'028	029	030	031	— ·032	033	'034	035	036	037	50
51	*027	'028	.039	.030	.031	.032	.033	1034	.035	.036	.037	*038	51
52	.028	*029	.030	.032	.033	.034	2 035	.036	.037	.038	.039	'040	52
53	*030	.031	'032	.033	.031	.032	.036	'037	.038	.039	'041	012	53
54	.031	.032	.033	034	'035	*036	.038	.039	.010	*041	042	'043	54
55	*032	.033	.034	.036	.037	.038	.039	'040	041	'043	•044	*045	55
56	.033	180	.036	.037	.038	.039	·041	042	.013	044	.046	047	56
57	*034	.036	'037	.038	.010	'041	*042	043	.012	.046	.047	.048	57
58 59	·036 ·037	·037 ·038	·038	'040 '041	·041 ·042	·042 ·044	·044 ·045	·046	*046 *048	017	·019	*050 *052	58 59
60	088	039	041	 ∙042	044	045	017	048	019	051	052	054	60
61	.039	.041	-042	.044	045	-046	·048	*049	.021	*052	'054	'055	61
62	*040	.042	.043	.045	.046	•048	•049	·051	.052	.054	.055	*057	62
63	.042	.043	.045	·046	*048	•019	·051	•052	*054	'055	.057	·059	63
64	.043	.044	•046	*048	*049	·051	.052	*054	•056	*057	·059	.060	64
65	-044	'046	.047	.040	.051	*052	*054	*055	*057	.059	·060	.062	65
66	*045	.047	-049	·050	052	054	·055	.057	.059	.060	-062	.064	66
67	.046	*048	.050	.052	.053	*055	.057	-058	·060	.062	1064	*065	67
68	*048	*049	.051	1053	1055	.056	.058	.060	.062	064	-065	-067	68
69	*049	*051	*052	*054	1056	*058	·060	-062	.083	'065	1067	-069	69

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32°

Fahrenheit—(continued).

			REDUC	TION O	F THE	BAROM	ETER T	O 32° F	FAHREN	HEIT.			
Tempera- ture, Fahrenheit.]	IBIGHT (OF THE I	Barometi	B IN IN	CHES AN	D COBRE	CTION IN	DECIMA	LS OF AN	INCH.		Tempera- ture, Fahrenheit
	13.2	14.0	14:5	15.0	15.5	16.0	16.2	17:0	17:5	18.0	18.5	19.0	
0 70	050	052	054	056	057	059	061	063	065	067	069	— •070	0 70
71	.051	.053	*055	.057	.059	.061	*062	.065	.066	-068	.070	.072	71
72	'052	·054	*056	'058	106)	'062	·064	•066	.068	.070	.072	*074	72
73	054	.056	'058	.060	.062	.064	.066	•068	.070	.072	074	.076	73
74	.055	.057	.059	.061	.063	.065	.067	•069	.071	.073	075	077	74
75	.056	.058	.060	.062	.064	.066	*068	.071	.073	.075	.077	*079	75
76	.057	-059	*062	*064	-066	.068	•070	.072	.071	-076	.078	.081	76
77	058	.061	.063	'065	.067	•069	071	074	.076	.078	-080	'082	77
78	1080	.062	.084	.066	'068	.071	073	.075	.077	.080	.082	*084	78
79	.061	*063	1065	.06 8	•070	072	.074	077	079	·081	.083	.086	79
80	062	—·064	067	069	— ·071	071	076	078	080	083	'085	'087	
81	*063	-066	-068	-070	'073	075	-070	-080	-000	*084	-087	-089	80
	*064	-067	.069	-072	-074	073	.079	081	.087	.086	*088		81
82	*(66	-068	'070	-072	*075	078	.080	.083	'085	*088	.090	'091	82
83	*067	1069	070		-075	1	*082	1	1	-089		'092	83
84	.068	*071	072	.071		'079	082	.084	*087		.092	100.	84
85	i	{		'076	*078	*081		.086	*088	.091	.093	*096	85
86	.069	072	074	'077	•079	.082	'085	087	.090	.092	1095	*097	86
87	.070	.073	.076	.078	•081	.083	•086	.089	.091	.094	.097	.099	87
88	'072	.074	.077	*080	-082	.085	•089	.080	093	.095	.098	.101	88
89	.073	.076	*078	*061	-084	-086	•089	.092	*004	-097	•100	'103	89
90	074	077	079	082	085	088	090	093	096	099	 ·101	104	90
91	.075	•078	-081	.084	•086	.089	.092	1095	'097	100	.103	'106	91
92	*076	'079	'082	.085	-088	.091	'093	.098	.088	102	105	108	92
93	'078	•080	.083	.086	•089	*092	*095	.098	.101	103	.106	.109	93
94	*079	•082	.085	*088	•090	*093	-00R	.099	102	105	108	.111	94
95	*080	*083	-086	.089	-092	*095	.098	.101	101	107	.110	.118	95
96	.081	*084	*087	.090	.093	*096	099	102	•105	.108	.111	114	96
97	*082	*085	.088	-092	*095	.098	'101	104	107	.110	.113	116	97
98	*084	-087	.090	-693	•096	.099	102	105	108	111	'115	'118	98
99	*085	088	.091	.094	-097	100	. 104	'107	110	.113	.116	.119	99
100	086	089	092	096	099	1100	-105	-108	-111	-·115	-118	121	100
100	- 087	.090	1094			102	i	110	1	116	119	123	1
101	*088	090	1095	*097	·100	103	107	1	113	118	119	123	101
102		092		.098		105	108	·111		1			
103	.090	i	1096	.099	103	106	109	i	'116	119	123	126	103
104	.091	*094	'097	101	104	108	111	114	118	121	'124	128	104
105	'092	*095	.099	102	106	109	.112	116	.119	123	126	129	105
106	.083	*097	100	'103	107	.110	'114	•117	121	124	128	'131	106
107	*094	.098	101	'105	108	.113	.112	119	122	126	129	133	107
108	.096	.099	.103	106	.110	.113	'117	•120	124	127	'131	134	108
1.09	1097	·100	104	107	•111	'115	.118	122	125	129	182	.136	109
110	*098	.102	.102	109	.113	.116	120	•123	127	.130	134	138	110

TABLE I, TABLE I, For reducing Deservations of the Barometer to the Temperature of 32°.

Fahrenheit—(continued).

68	T00	100	100-	100	100	100	100	100	100	100	100	100	62
88	£00.	100-	100-	T00-	T00.	T00.	100.	T00-	T00.	100.	100-	100.	82
48	800-	800.	800-	800-	800.	£00-	800.	800-	800.	800-	800-	809.	48
98	900-	900-	900-	900-	900.	900-	900.	900-	900-	900-	900-	\$00·	98
98	800-	900-	800-	400-	400.	400.	400-	400-	400-	400-	900-	900-	38
5 /8	010.	OTO.	010.	OTO-	600-	600-	600-	600-	600.	800-	800-	800-	98
23	210-	210.	210-	-013	TIO.	tto.	TTO.	tto.	oro.	010.	010.	oro.	88 ¥
88	910-	FIO.	₹10.	FIO.	810.	810.	810.	STO.	STO.	\$10.	gio.	TIO. 4	¥ 86
18	410.	410.	910-	910-	910.	910.	910	910.	FIO.	\$10.	\$10·	810.	IE
90	610.+	610.+	810.+	810.+	810.+	410.+	410.+	910.+	910.+	910.+	4.012	#10.+	05
								 			-		
1 10	120.	120-	120.	020-	020-	610.	16 10.	810.	810.	810-	410-	410.	8 T
8I	5 20.	EZO.	820·	220·	220 -	120.	120.	020-	020.	610.	610.	8TO.	18
4 T	970-	320-	920.	₱ 70 .	∿ 20∙	£20.	E20.	220.	220.	120-	120-	020	41
9T	820.	820-	420.	920-	920.	920.	920.	₹ 70.	5 70.	£20•	220·	220·	76
9 T	080.	060	620.	670.	820.	470.	420.	980.	920-	320-	₹70.	₩20·	12
ΨT	££0.	£60·	160.	180.	080•	620.	620.	820.	430.	420.	920.	920.	٩T
13	980.	₹60 .	660	eeo.	2EO-	TE0.	TE0.	080-	620.	620.	820-	420.	13
gi	480.	980.	980.	980.	₩0.	.033	£80·	260-	180.	080-	080	620-	gt
II	680-	680	820-	480.	980.	980.	980.	₩60 -	860-	280-	180.	160-	11
OT	2¥0 +	150.+	010.+	680.+	+.038	480.+	480.+	+ .038	980.+	180.+	\$60 +	ZE0.+	OT
•	₹ † 0	£#0.	ZF ().	750	050	600	6EO.	000	100	000	000	580.	
6	9FO-	950.	550. 1560.	150.	0140. 2140.	680.	170.	880- 070-	480- 680	880 880	980.	960.	6 8
8	870.	410.	970.	640·	670. 570.	IFO.	2¥0.	SFO.		010.	480. 680.	880	
4	190.	090.	810. 850.	910	/f0.	₹ 10 .	570. 550.	\$ 10 .	I\$0.	290.	1	680.	4
9	£20.	230.	T90.	9F0-	6FO.	9¥0.	950.	910.	770.	670.	010.	110.	9
5	990.	₹20.	£20.	720.	120.	090.	9 7 0.	450.	950.	950.	550.	£10.	7
8	490.	990.	990.	\$90.	£20.	290.	090.	6F0.	870.	470.	910.	9¥0.	8
8	090-	890.	490.	990.	990.	₹90.	290-	190.	090.	610.	850.	970.	8
ī+	290.	190-	690.	820.	490.	990.	F90.	890.	Z20.	190	670.	810.	1+
0	1 90.+	890.+	190.+	090.+	690.+	890.+	990.+	990.+	%90.+	890.+	190.+	090.+	0
											<u> </u>		
ī	990. 690.	990. 200	#90.	290-	190-	090.	890.	490.	990-	#90.	.023	890.	I
8	140.	490. 690.	990. 890.	F90.	290. 290.	290.	290.	.000	890-	990.	990.	₹90. 990.	8
8	840.	840.	040.	490.	490. 490.	₹90. 000	₹90.	090.	100	830*	490- 690-	490.	8
9	940.	540. ₹40.	740.	690- 140-	690.	890. 990.	990.	€90. ₹90.	190.	290.	090-	690.	₹ 9
9	940. 840.	940.	940.	£40.	140.	040.	890.	490.	£90. ₫ 90.	₩. ₩90.	280.	190.	9
4	080.	840.	440.	940.	F40.	740.	040.	690.	490	990.	F90.	890.	4
8	280.	180.	640.	440.	940-	F40.	740.	140.	690.	490-	990.	F90.	8
6	₹80·	290.	180-	640.	840-	940-	₹40.	840.	140.	690-	890.	990.	6
01-	480.+	980.+	180.+	880.+	080-+	840.+	940.+	940.+	810.+	140.+	690.+	890.+	01-
ŏ*			**	J		*			F	,			ŏ
	0.98	34.8	0.9%	2 .25	0.8%	\$\$\$\$	0.22	9. LE	0.12	202	30.0	2.61	14.A yraa a
Temper ture, Fahrenhe		и Імси.	T 40 811	n Droin	n Rollo	EREOD &	AV SEED.	NI NI U2	JEROEV.	C CHES TO	EHOIME	-	empora- fure, tienheit,
			HEIT.	VHREN	I -58 O	KLEE 1	BVBOM	HL &	O NOIL	BEDO	,		Ň,

TABLE I,

For reducing Observations of the Barometer to the Tempe: of 32°

Fahrenheit—(continued).

REDUCTION OF THE BAROMETER TO 32º FAHRENHEIT. Tempera-Tempera-HEIGHT OF THE BAROMETER IN INCRES, AND CORRECTION IN DECIMALS OF AN INCH. ture, ture, 19.5 20.0 20.2 21.0 **21.**5 29.0 99.5 99.0 99.5 24.0 24.5 25:0 --003 ---003 ---003 ---003 -:003 --003 ---------30 ~1003 -- '003 **--**∙003 -.003 90 31 004 .005 **.**005 .005 .005 .005 **.0**05 .005 2002 ·005 •008 .006 31 32 *006 .006 .008 .007 .007 .007 .007 .007 *00% .008 .008 **:0**08 32 33 .008 .008 .008 .008 .009 •000 .009 .009 .010 .010 .010 .010 33 94 .010 **.**010 .010 .010 .011 ·011 .011 .011 .012 .012 012 012 94 85 .011 .012 .012 .012 1019. .013 .013 .013 .014 ·014 .014 ·015 95 013 ·016 36 .014 ·014 .015 ·016 101R .017 .017 .013 014 .012 36 37 .012 ·015 .016 .016 .016 .017 .017 .018 .018 ·**0**18 .019 .019 37 38 .017 .017 .017 .018 .018 .019 .020 .020 .020 .021 .021 .019 38 .021 .022 .022 .023 .023 .024 39 .018 .019 .019 .020 .020 .021 90 40 -- 020 **~**·021 -.021 -022 -- 022 -.023 -.023 -.024 -024 - 025 -025 _-•∩98 40 41 .022 .022 .023 021 024 .025 .025 .026 .026 .027 .027 .028 41 42 .024 ·024 .025 .025 ·026 .027 .027 .028 **.**028 .029 .030 .030 42 43 .025 .028 .027 1028 .029 .029 .080 .031 .031 .032 .032 48 4.27 .027 -028 .029 .029 .030 .031 .031 .082 .033 .033 .034 .035 44 44 .032 .035 .034 .035 -036 037 45 45 .029 .030 .030 .033 .031 .033 .038 .039 46 .031 .031 .032 .033 .034 .035 .035 .036 .037 .038 46 47 .032 .033 034 .035 .036 .036 .037 .038 .039 .040 .041 .041 47 .042 .043 044 48 48 .034 .035 .036 .037 .338 .038 .039 .040 .041 •036 -037 .038 .039 .040 .040 041 .042 .043 .044 045 046 40 -048 -.037 -- 038 --039 -040 -041 -- 042 -043 -- 044 - 045 -9048 - 047 50 50 51 -039 .040 .041 .042 .043 .044 .045 046 .047 .048 .049 050 51 °052 053 52 52 042 .045 -046 .048 049 .050 .041 .043 .044 047 53 .048 1050 .052 .053 .054 .055 58 .043 .044 .045 046 047 .049 .055 •058 .057 .052 .054 54 .044 .046 .047 ·048 049 .050 .051 54 •059 .047 .050 .051 .052 .053 .056 ·056 .057 058 55 55 046 1040 .057 .058 .059 .060 .081 56 56 .048 .049 **050** *052 .053 ·054 .055 .051 .052 .05 1 .055 .056 .057 .059 .060 .061 .062 .064 57 **K7** .050 .053 .058 .061 ·062 .063 .065 •066 58 .054 °055 .057 .059 KR 1761 .063 .084 .065 .067 .068 59 .055 060 59 .053 056 .057 .059 .061 RΩ --- 055 -- 056 --- '058 -.059 -- 061 .062 -063 - 065 - 066 ~'068 ~'069 -.070 60 .073 61 .061 1062 .064 .067 .068 .070 '071 61 ·057 *058 .080 .065 62 .080 .063 .064 .066 .067 .089 .070 .072 .073 .075 62 .058 .061 63 .076 .077 .071 .072 074 63 .080 .062 .063 '065 .066 1068 .069 .079 64 64 '062 .063 .065 1067 .068 .070 .071 .073 .075 076 .078 .082 65 .065 .068 .070 .072 .073 .075 .077 .078 .080 65 .064 .067 88 ·084 .085 .067 .069 .070 .072 .074 .075 .077 .079 .080 .082 66 67 .083 .084 *096 .089 .071 .072 .074 .076 .077 .079 .081 82 .007 .086 .068 68 074 .079 .081 .083 .085 .071 .072 .076 .078 68 .069 .087 .089 .090 69 .083 .085 '081 69 .071 .072 .074 *078 .078 .080

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32°

Fahrenheit—(continued).

			REDUC	TION O	F THE	BAROM	ETEB T	O 32° F	HRENE	EIT.			_
Tempera- ture, Sahrenheit.	1	Нвіфит (of THE	BAROMET	er in In	CHES, Al	ID CORRI	CTION 11	в Ввсти	ALS OF A	n Inch.		Tempera- ture, Fahrenheit
	19.2	20.0	20.2	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	
70	072	071	076	'078	080	082	083	'085	087	·089	091	093	70
71	'074	.076	.078	.090	*082	1083	·085	.087	.089	'091	.093	1095	71
72	.078	.078	.080	*082	.087	*085	'087	.089	*091	.093	*095	.097	72
73	1078	*079	.081	.083	'085	•087	.089	.091	.093	*095	*097	.099	73
71	'079	•081	.083	.085	'087	•089	'091	.093	°095	*098	.099	•102	74
75	.081	.083	*085	-087	.088	•091	.093	*095	.098	100	102	104	75
76	.083	-085	.087	•089	·091	•093	*095	•097	100	.102	101	106	76
77	180	*087	.089	•091	·093	*095	*097	.100	102	104	.108	·108	77
78	.086	•088	.091	.093	·095	.097	•099	102	104	106	108	•110	78
79	-088	.080	*092	·095	·097	-099	•101	101	•106	.108	110	.113	79
80	090	092	094	096	099	-·101	103	106	-·108	—·110	- ·113	— ·115	80
81	1091	190	*096	'099	.101	103	105	108	.110	112	115	.117	81
H2	-093	1095	.008	.100	103	105	107	·110	.112	111	117	•119	82
83	'095	-097	-100	102	101	107	109	.112	•114	117	•119	•121	83
H1	.097	099	.101	-191	106	.109	•111	.111	•116	•119	.121	124	84
85	10094	101	.103	-106	·108	.111	·113	116	•118	.121	123	•126	85
86	.100	102	105	108	110	1114	115	-118	•120	.123	·126	128	86
87	102	101	107	109	•112	'115	.117	120	123	125	128	•130	87
88	103	106	109	111	1114	117	.119	122	•125	•127	.130	•133	88
89	105	108	•111	113	•116	·119	121	124	·127	129	132	135	89
90	107				-220	.191		.100		.101			
90 91	109	109	-1112	115	-118	121 -122	123	-126	129	131	-131	137	90
92	110	'111	114	117	120		125	128	131	134	'136	139	91
_	110	113	116	119	122	125	127	130	133	136	139	141	92
93	1	115	118	121	124	'126	129	132	135	138	'141	144	98
94	-111	117	120	122	125	128	.131	.134	·137	140	.143	146	94
95	116	.118	'121	124	'127	130	133	.136	139	112	145	148	95
96	'117	120	123	126	129	132	135	138	111	144	147	.150	96
97	119	'122	125	128	.131	134	'137	140	143	•146	119	.152	97
98 99	·121 ·122	·124 ·125	·127	·130 ·132	·133	·136	139	1142	147	·148 ·151	·152 ·154	·155 ·157	98
	-												
100	-124	-127	-131	-134	137	-140	143	- 146	-150	153	156	— ·159	100
101	126	129	132	136	139	142	145	148	152	155	158	.161	101
102	128	131	134	137	141	144	147	151	154	157	160	'164	102
103	129	.133	-136	139	143	146	'149	158	156	159	163	166	108
104	131	134	138	141	144	148	151	155	158	161	165	'168	104
105	133	136	140	1	146	150	153	157	160	163	167	170	105
106	135	138	141		148	152	155	159	162	166	.169	'172	106
107	136	140	143	117	150	154	157	.161	164	168	.171	175	107
108	138	'141	145		152	156	159	163	166	170	178	177	108
109	140	148	147	150	154		161	165	168	172	175	179	109
110	'141	145	149	152	156	159	163	167	170	174	178	181	110

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32°

Fahrenheit—(continued).

			REDUC	TION O	F THE	BAROM	ETER T	0 32° FA	HRENE	EIT.			
Tempera- ture, Fabrenheit.		Негент	OF THE	Baromet	re in la	TCHES, A	ND CORR	ECTION I	n Decim	ALS OF	N Inch.		Tempera- ture, Fahrenheit
	25.5	26.0	26.2	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.2	31.0	
-10	+.088	+.090	+.092	+*094	+ .092	+*097	+.099	+101	+'102	+.104	+106	+:108	-10
9	1086	*088	.080	.091	.093	*095	•096	'098	100	•101	.103	105	9
8	084	*085	*087	.089	.090	*092	'094	*095	'097	.099	100	102	8
7	.082	*083	*085	*086	*088	1090	·091	.093	094	.098	*098	.099	7
6	.079	'081	*082	*084	'085	·08 7	1089	.090	.092	.093	*095	1096	6
5	.077	'078	'080	*081	.083	•084	•086	'087	•089	.090	1092	.094	• 5
4	•075	1078	.078	*079	•080	*082	.083	*085	.086	•088	.089	.091	4
3	.072	*074	.075	-077	·078	1079	•081	'082	•084	•085	*087	.088	3
2	•070	'071	.073	074	.076	.077	1078	1080	•081	.082	'084	085	2
1	•068	*069	·070	.072	*073	·07·4	'076	*077	•078	.080	'081	·082	1
	+.065	+'067	1 1000	+.089	+.071	1,070	+.073	1.0074	1 1070	1 1025	1.0000	1,000	
0 +1	+.063	*064	+.068	*067	*068	+·072	+ 0/3 •071	+*074	+ 076	+ 077	+ 078	+'080	0 +1
2	1061	-062	063	*064	'066	.067	*068	069	073	074	1078	077	2
3	1059	'060	.061	*062	*063	061	'065	*067	.068	'069	073	07-1	8
4	.056	*057	1058	*059	'061	*062	.063	'064	'065	.086	1067	.068	4
5	*054	057	056	*057	058	-059	.060	*061	*062	.063	065	.066	5
6	052	1053	*054	.055	*056	•057	.058	*059	1060	.061	'062	*063	6
7	019	050	.051	052	053	-051	055	*056	*057	*058	*059	•060	7
8	017	*048	.049	*050	.051	052	*053	*054	054	*055	.056	057	8
9	-015	.016	046	017	048	019	*050	.021	052	*053	*051	.051	9
	"	020	0.20		0.20	0.50		001	002	003	00.	001	
								<u> </u>		 -			
	1					1		l			•		
10	+ 042	+ 043	+ 044	+'045	+.016	+*047	+:017	+ '018	+.010	+.050	+'051	+.052	10
11	040	·041	.042	*042	.043	·044	*045	.046	016	1047	'048	.019	11
12	-038	.039	.039	*040	'041	012	042	.013	044	*045	045	.016	12
13	*036	*036	.037	*038	*038	.039	1040	•040	'041	*042	'043	*043	13
14	.033	034	*035	*035	*036	*037	'037	*038	.038	*039	010	*040	14
15	*031	*032	.032	.033	'033	.031	.035	*035	.036	*036	1037	.038	15
16 17	*029 *026	029	·030	·030	*031 *028	*032	• • • • • • • • • • • • • • • • • • • •	.030	·033	·031	·031	*035 *032	16 17
18	024	027	027	028	028	*029 *026	027	030	028	1028	032	032	18
19	024	025	023	023	.024	024	*024	027	*025	*028	.026	*027	19
20	+.020	+.020	+.020	+.021	+.021	+ 021	+.022	+'022	+.023	+*023	+.023	+ 024	20
21	'017	.018	018	.018	.019	.019	-019	'020	-020	*020	'021	.021	21
22	*015	*015	.016	.016	.016	.016	-017	'017	.017	•018	.018	*018	22
23	.013	.013	.013	.013	014	.014	*014	014	.015	*015	*015	*015	23
24	·010	.011	.011	·011	·011	•011	.012	*012	012	.012	'012	.013	24
25	*008	-008	1008	*009	.008	•009	•009	*009	.008	•009	·010	*010	25
26	•006	.008	.008	•006	*006	*006	*006	*007	*007	*007	·007	1007	26
27	*003	'004	•004	·004	·004	1004	*004	*00 4 i	*004	·004	·004	004	27
28	-001	·001	.001	-001	•001	·001	.001	*001	·001	.001	·001	.001	28
29	001	001	'001	001	001	001	'001	001	'001	 001	001	'001	29

TABLE I,

For reducing Observations of the Barometer to the Temperature of 32°

Fahrenheit—(continued).

			REDU	CTION	OF THE	BARO	METER	TO 32° F	AHREN	HEIT.			,
Tempera- ture, Fahrenheit.		Ницит	OF THE	BAROME	rer in I	NOHES, A	ND CORE	ECTION 1	и Овети	LALS OF	AN INCH.	•	Tempera- ture, Fahrenheit
	25.5	26.0	26 5	27.0	27.5	28,0	28 5	29.0	29.5	39'0	80.2	81.0	
° 30	'004	'004	'004	1004	'004	.004	****	'004	'004	004	'004	'004	0
81	.008	1008	-008	'004 '006	-004	001	-004	-004	1007	1007	1007	-009	30 31
32	·008	1008	.008	.008	.008	.009	1009	1009	*009	.009	010	.010	32
83	.010	'011	.011	011	011	.011	*012	002	002	.012	'012	010	33
34	.013	.013	.013	*013	014	'014	014	014	*015	.012	015	.015	34
85	'015	*015	.015	.016	.016	.018	.017	*017	*017	.018	.018	.018	35
36	.017	.017	.018	*018	.019	.019	.019	.019	*020	*020	.021	.021	36
87	.019	.020	'020	'021	'021	.021	.022	.022	-022	.023	.023	.024	37
38	.022	.022	.023	.023	.023	'024	*024	.025	*025	.026	*026	.026	38
39	.024	024	*025	.025	·026	*026	.027	027	·02 8	·028	•029	.029	39
40	026	027	027	028	028	029	029	:030	030	:031	031	032	40
41	-029	.029	.030	.030	.031	.031	.032	.033	.033	·034	*034	*035	41
42	.031	.031	.032	.033	.033	·034	034	*035	.036	.036	*037	.037	42
43	.033	.034	*034	.032	.036	.036	.037	.038	•038	.038	·040	1040	43
44	*035	•036	'037	.037	*038	.039	·040	•040	'041	'042	.042	'043	44
45	'038	*038	.039	'040	'041	'041	042	.043	.043	'044	*045	*046	45
46	·040	-041	012	042	.073	044	*045	°046	'046	*04/7	*048	'049	46
47	.015	.043	.044	*045	.046	·046	*047	*048	*040	.020	'051	'051	47
48	.012	*045	·046	*047	.048	*049	.050	.051	.052	'052	*053	'054	48
49	·04/7	*048	1049	*050	*050	'051	'052	.053	*054	*055	*056	*057	49
F 0	*040	*070			.050	'054	.022		*075	.050	-050	000	
50 51	049 051	050 -052	051 •053	'052 '054	·053	056	055 -057	'056 '058	·057	·058 -060	059	060 '062	50
52	054	*055	*056	'057	'058	*059	1060	*061	*062	063	'064	065	51
53	056	057	058	057	.090	061	.063	*064i	'065	·066	067	1068	52 53
54	-058	.059	.060	*062	-063	.064	065	·066	*067	-068	.070	'071	54
55	-060	062	-063	064	065	.066	.068	-069	070	000	070	071	55
56	.063	*064	065	-066	068	.069	·070	1071	.073	•074	075	076	56
57	*065	.066	.068	-069	.070	.071	073	074	1075	-076	.078	.079	57
58	-067	.069	-070	071	.073	074	.075	*077	•078	1079	081	082	58
59	070	•071	1072	.074	075	·076	.07 8	1079	*080	1082	.083	'085	59

60	072	073	075	076	077	079	080	082	083	085	086	'087	60
61	'074	.075	.077	1078	.090	.081	.083	*084	*086	'087	.089	·090	61
62	.076	.078	.079	081	.082	*084	*085	*087	*088	*090	.091	.093	62
63	.079	*080	*082	.083	.085	*088	*088	•089	*091	.093	.094	*096	63
64	·081	.082	·084	*086	'087	*089	.080	1092	'094	·095	1097	1098	64
65	.083	*085	1086	·088	-090	.091	.093	*095	.096	*098	•100	101	65
66	·085	-087	.089	.09 0	.092	*094	*096	*097	.099	101	102	104	66
67	*088	*089	.091	.093	1095	1098	*098	·100	102	103	105	107	67
68	.090	-092	'094	.092	*097	.099	.101	102	104	106	108	109	68
69	1092	1094	•096	.098	'100	.101	·103	·105	107	'109	110	112	69

TABLE I, For reducing Observations of the Barometer to the Temperature of 32° Fahrenheit-(continued).

			REDU	CTION	OF THE	BAROL	METER	TO 32° 1	FAHREN	HEIT.			
Tempera- ture, Fahrenheit.	:	Нвіснт	OF THE	Вавомвт	BR IN I	CHES, A	ND COBB	ECTION I	n Dreim	IALS OF	AN INCH		Tempera- ture, Fahrenheit
	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.2	31.0	
0													•
70	095	096	098	·-·100	-102	104	106	108	-109	111	113	-115	70
71	·097 ·099	'099	·101	·102	104	106	·108	'110	112	114	'116	'118	71
72	101	'101 '103	105	105	107	·109	1113	113	115	117	119	·120 ·123	72
73	104	'106	108	1107	112		113	115	117	·119	'121	1	73
74 75	108	108	110	110	114	114 116	118	'118 '120	120	122	124	126	74
	108	'110	110	112	117	119	118	120	·122	125	'127	'129	75
76							-	1	1		129	'131	76
77	'110	1112	'115	'117	·119 ·122	121	123	'126	128	130	'132	134	77
78	113	115	117	119		124	126	128	'130	133	135	137	78
79	-115	-117	.119	*122	124	·126	128	*131	.133	*135	.137	'140	79
80	117	—·119	122	—·12±	— ·126	—·129	— ·131	133	136	— ·138	140	-143	80
81	119	•122	124	126	129	.131	134	136	138	141	143	'145	81
82	122	124	126	129	.131	134	'136	138	'141	143	146	'148	82
83	, 124	126	129	.131	134	136	'139	'141	143	148	118	'151	83
84	126	129	.131	134	.136	139	141	144	146	149	'151	154	84
85	128	.131	.133	.136	.139	'141	.114	1146	149	151	154	156	85
86	.131	.133	136	.138	141	144	146	149	151	154	156	159	86
87.	.133	.136	.138	141	143	'146	149	.151	154	157	159	162	87
88	135	138	•141	143	'146	.149	151	154	157	159	'162	165	88
89	.137	'140	143	145	148	151	154	.156	159	.162	165	167	89
90	-140	142	145	148	151	— ·153	— ·156	159	-162	-164	167	— ·170	90
91	142	145	148	150	153	156	•159	162	165	'167	170	.173	91
92	'144	147	150	153	156	158	.161	164	167	170	172	175	92
93	147	149	152	155	.158	.161	164	167	.170	172	175	178	93
94	·149	152	155	•157	161	163	.166	'169	172	175	177	.180	94
95	•151	154	.157	•160	.163	'166	.169	172	175	178	180	.183	95
96	·153	156	159	•162	165	168	171	174	178	181	183	186	96
97	156	159	162	165	•168	'171	174	177	180	'183	186	189	97
98	158	'161	164	.167	170	.173	.176	.179	183	186	.188	.191	98
99	·160	'163	'166	·169	173	'176	.179	.182	185	'188	.191	194	99
100	- '162	- '166	:169	172	175	— ·178	181	185	188	191	-194	197	100
101	165	·168	'171	174	178	•181	184	187	190	194	.197	200	101
102	.167	.170	·173	.177	180	·183	.186	190	•193	196	•200	. 203	102
103	.169	.172	.176	179	182	.186	189	192	196	199	202	'206	103
104	171	175	.178	·181	185	188	.192	.195	•198	*202	205	208	104
105	174	.177	180	184	187	•191	194	.197	201	204	'208	211	105
106	176	179	183	186	190	193	197	•200	•203	*207	210	'214	106
107	178	182	•185	•189	192	196	'199	203	*206	210	213	.217	107
108	·180	184	187	191	195	198	*202	205	209	.212	216	.519	108
109	.183	'186	190	193	197	201	204	208	211	215	218	*222	109
110	185	'189	192	196	199	203	207	210	214	218	-221	'225	110
				1		1	1			ļ	1		

This table has been extended so as to include ranges of temperature from -10° to 0° , and from 100° to 110° Fahrenheit and for inches below 20, by means of the formula (\hbar being the reading of the barometer and t the temperature):—

Reduction = $\hbar \frac{0.0001001}{1+0.0001001} \frac{(t-32)}{(t-32)}$

which is the formula used by Schumacher in the construction of the original table. See Sammlung von Hulfstafeln, p. 187, New Ed. Altona, 1845.

TABLE II,

For reducing Observations of the Barometer to sea-level, correction additive.

Barometer reading at sea-level, 30 inches.

				Temp	Brature	OF EXT	ernal A	ib—Deg	rees, Fa	HRENHE	IT.			
Heigh ^t in feet.	20°	-10°	0°	100	20°	300	40°	50°	80°	70°	80°	800	100°	Diff. for 1 inch.
10	.018	*013	·012	·012	·012	'012	·011	·011	*011	*011	·010	*010	.010	•000
20	*026	•025	•025	·024	•023	.023	.023	-022	*022	·021	.021	*020	*020	.001
80	-039	-038	.037	.036	•035	·034	·034	-033	·032	.032	-031	-030	•030	·001
40	*052	•050	•049	048	-047	046	'04 5	*044	·043	.042	·041	-040	'040	·001
50	*065	•063	·061	*060	•059	.058	.026	•055	·05 4	•053	-052	•051	*050	.002
60	•077	.076	-074	.072	•070	.060	•068	•066	065	.063	-062	*061	•059	*002
70	-090	•088	•086	•084	082	.091	•078	•077	.076	.074	.072	.071	•069	-003
80	103	•101	-098	·096	·094	.092	.080	088	•086	·084	•082	·081	.079	1008
90	·116	•113	111	•108	105	104	101	•099	'097	*095	.093	·091	'089	*008
100	·12 9	·126	•123	· 12 0	·117	·115	·112	•110	108	·105	·103	·101	.099	-001
110	142	-139	· 13 5	·132	·129	·126	·123	•121	•119	.116	·113	-111	·109	*004
120	·15 5	·151	·148	·144	140	·138	·134	·182	·129	·126	124	·121	·119	*004
130	•168	·164	.160	·156	152	·149	·146	•143	140	·137	134	'131	·129	*005
140	-181	·176	172	.168	·164	.161	157	154	.151	·147	144	141	.139	*005
150	194	189	·185	180	'176	•172	•168	·165	·162	·158	155	152	149	•006
160	*206	·201	·197	192	187	'183	·179	•176	·172	.168	·165	162	.128	-006
170	219	*214	•209	*204	•199	•195	•190	•187	·188	179	175	·172	·168	•006
180	-282	227	-222	·2 16	•211	206	*202	•198	·194	189	·185	·182	·178	-007
190	*245	239	•234	·228	-222	2 18	213	-209	204	· 2 00	196	·192	·188	-007
200	*258	-252	•246	·24 0	•234	•229	*224	•220	·215	•210	206	-202	198	·007
210	-271	-261	*258	•252	-246	·24 0	-2 35	-231	*226	221	-216	-212	•208	1008
220	*284	-277	·270	*264	*257	-252	•246	*242	•236	.231	-227	*222	-218	1008
230	*296	•289	-283	·276	•269	•263	*257	•253	•247	*242	*237	-232	•228	-008
240	*809	-302	'29 5	288	•281	· 2 75	*269	*264	•258	*252	*248	*242	.23 8	.009
250	-822	*814	`807	.300	*293	·286	*280	-275	•269	263	'258	258	*248	-009
<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	!	<u> </u>	<u> </u>	1	<u> </u>	<u> </u>

TABLE II,

For reducing Observations of the Barometer to sea-level, correction additive—(contd.).

Barometer reading at sea-level, 30 inches.

				Твмрі	BATURE	of Exte	RNAL AI	e-Dege	ees, Fai	(RBN IIBI	r.			
Hoight	-20°	-10°	00	100	20°	30°	40°	50°	60°	70°	80°	900	100°	Diff fo
260	•335	-327	•319	•311	*304	297	*291	*285	-279	273	*268	•263	257	.009
270	'348	.839	-331	•323	.316	.309	.302	296	•290	284	•278	•273	267	-010
280	•360	*352	·344	*335	-328	-320	.314	.307	.301	294	288	-283	277	-010
290	.373	'364	.356	*347	-839	-332	.325	.318	.311	.305	.299	293	-287	.010
300	· 3 86	.377	•368	.359	'351	*343	-336	.329	-322	.315	.309	-303	297	.011
310	·399	.389	*380	.371	-363	*354	*347	*340	.333	*326	.319	.313	-307	.011
320	412	402	•392	.383	*374	'366	'358	.321	.313	-336	'329	.323	.317	.013
830	·121	-111	·404	-395	*386	.377	-369	·362	.321	*347	.340	.333	*326	012
310	.437	· 42 7	· 41 6	·407	397	.389	.380	•373	.365	.357	'350	.343	.836	.012
350	· 45 0	·439	• <u>129</u>	119	109	· 4 00	.392	*384	.376	*368	*360	.353	'346	.013
360	·463	451	441	· 43 0	· 42 1	·411	-403	*394	.386	.378	.370	*363	*356	.013
370	476	·464	· 4 53	·442	432	•423	·414	· 4 05	·397	.389	.380	.373	.366	.013
380	· 488	· 4 76	165	*454	.414	431	'42 5	· 1 16	408	-399	'391	.383	'375	.014
390	·501	· 4 89	· 4 77	· 4 66	· 4 55	·416	· 436	· 4 27	·418	· 4 10	.401	.393	.382	.014
400	.514	•501	189	178	467	· 4 57	·417	· 43 8	429	· 4 20	*411	403	*395	'014
410	·527	513	•501	-4 90	179	·4 68	·45 8	•449	440	'430	'421	413	*405	.012
420	539	-526	·51 3	*502	· 49 0	.180	•469	· 4 60	· 45 0	·441	· 4 31	423	'415	.012
430	.552	-538	· 52 5	•513	.203	· 4 91	1480	470	·461	· 4 51	•442	•433	•425	·015
440	.565	·551	·537	•525	513	•502	·491	481	·471	*462	•452	· 44 3	.434	•016
450	·578	•563	· 5 50	-537	·52 5	.213	.503	-492	•482	·472	·462	•453	·414	·016
460	.590	•575	·562	•549	·537	•525	·514	•503	·493	·482	·472	463	•454	·017
470	.603	·588	·574	·561	•548	•536	•525	·514	•503	· 49 3	·482	473	464	·017
480	·616	-600	·586	-572	•560	•547	-586	524	·514	· 5 03	•493	· 4 83	474	.018
490	628	.613	·598	·584	·571	•559	.547	•535	·524	'514	·50 3	•493	483	·018
500	·641	·625	·610	-596	·583	.570	.228	-546	-535	.524	·513	.203	·493	.018

TABLE III.

Table of the Elastic Force of Vapour in inches of mercury in the latitude of 22° at sea-level, reduced from the table computed by the Reverend Robert Dixon from Regnault's original data.

00												,		,		
2	۰	Inch.	•	Inch.	۰	Iı ch.	٥	Inch.	•	Iı ch.	•	Inch.	٥	Inch.	۰	Inch.
14	0.0	·0440	6.0	•0578	12.0	•0755	18.0	*0985	24.0	·1282	30.0	.1665	36.0	*2126	42.0	·2680
10	-2	.0114	.2	*0583	.2	.0762	.2	.099¥	•2	1293	'2	·1679	•2	2143	-2	2700
8 '0466 '8 '0509 8 '0783 8 '1021 8 '1327 '8 '1723 '8 '2194 '8 '21 1°0 '0460 7°0 '0605 13°0 '0790 19°0 '1030 25°0 '1339 31°0 '1788 37°0 '2210 43°0 '22 2 '0465 '2 '0610 '2 '0707 '2 '1030 '2 '1351 '2 '1764 '2 '2227 '2 '2 '22 '22 '22 '22 '2 '2 '22 '2 <td>-4</td> <td>'041_B</td> <td>.4</td> <td>·05×9</td> <td>•4</td> <td>.0769</td> <td>•4</td> <td>1003</td> <td>.4</td> <td>1304</td> <td>•4</td> <td>1694</td> <td>.4</td> <td>2160</td> <td>•4</td> <td>2721</td>	-4	'041 _B	.4	·05×9	•4	.0769	•4	1003	.4	1304	•4	1694	.4	2160	•4	2721
10	.6	0162	-6	·0591	•6	.0776	•6	•1012	•8	•1316	.6	1709	•6	·2177	•6	2742
-2 'O465 '2 'O610 '2 'O707 '2 '1089 '2 '1381 '2 '1754 '2 '2227 '2 '218 '4 'O469 '4 'O861 '4 'O863 '4 '1048 '4 '1769 '4 '2244 '4 '22 '6 'O473 '6 '0821 '6 '0811 '6 '1067 '6 '1784 '6 '12244 '4 '22 '8 '0477 '8 '0622 '8 '0818 '8 '1066 '8 '1389 '320 '1815 380 '2298 440 '2 '2 '0456 '2 '0638 '2 '0833 '2 '1085 '2 '1411 '2 '1880 '2 '2316 '2 '2316 '2 '2316 '2 '2316 '2 '2316 '2 '2316 '2 '2316 '2 '2316 '2 '2316 '2	-8	0456	•8	·0599	•8	.0783	•8	1021	.8	1327	•8	1723	•8	2194	.8	2762
"4 "O1600 "4 "O616 "4 O804 "4 "1048 "4 "1303 "4 "1769 "4 "2244 "4 "22 "6 "0473 "6 O621 "6 O811 "6 1057 "6 1374 "6 '1784 "6 "2202 "6 "22 "8 '0477 "8 '0627 "8 '0818 "8 '1066 "8 '1386 "8 '1800 "8 '2280 "8 '22 '0466 "2 '0638 '10 '0825 20'0 '1076 26'0 '1389 32'0 '1816 38'0 '2298 44'0 '2 '24'4 '0491 "4 '0491 "4 '0491 "4 '0491 "4 '0491 "4 '0491 "4 '0491 "6 '0818 "6 '1104 "6 '1435 "1859 "6 '2316 '22 '14 '14 '98 '1859 "6 '2316 '20 <td< td=""><td>1.0</td><td>·0460</td><td>7.0</td><td>.0802</td><td>13.0</td><td>·0790</td><td>19.0</td><td>1030</td><td>25.0</td><td>·1339</td><td>31.0</td><td>1738</td><td>37.0</td><td>·2210</td><td>43.0</td><td>2783</td></td<>	1.0	·0460	7.0	.0802	13.0	·0790	19.0	1030	25.0	·1339	31.0	1738	37.0	·221 0	43.0	2783
10	.2	·0465	.2	·0610	.2	•0797	•2	•1039	-2	1351	.2	1754	-2	.2227	•2	2804
18	.4	0169	-4	*0616	•4	10804	•4	·10 4 8	•4	·1363	•4	1769	-4	·2244	•4	*2825
200 0.482 800 0.632 140 0.6825 200 0.1076 260 0.1389 320 0.1815 380 0.2288 4410 0.2288 0.428 0.638 0.22 0.6833 0.22 0.6833 0.22 0.6833 0.22 0.1815 0.22 0.1411 0.22 0.1830 0.22 0.2316 0.2316 0.23	-6	0473	-6	0.621	•6	·0811	•6	1057	•6	·1374	.6	1784	.6	-2262	•6	2216
2 '0466 '2 '0638 '2 '0833 '2 '1085 '2 '1411 '2 '1830 '2 '2316 '2 '24 '4 '0491 '4 '0644 '1 '0840 '4 '1096 '4 '1123 '4 '1844 '4 '2334 '4 '234 '6 '0495 '6 '0848 '6 '1104 '6 '1435 '6 '1859 '8 '2352 '6 '224 '8 '0560 '8 '0635 '8 '0855 '8 '1114 '8 '1148 '8 '1874 '8 '2370 '8 '22 3'0 '05004 '90 '0661 15'0 '0863 21'0 '1124 27'0 '1461 33'0 '1888 39'0 '2388 45'0 '3 '2 '0500 '2 '0667 '2 '0870 '2 '1134 '2 '1473 '2 '1903 '2 '2406 '2 '3 '8 '0513 '4 '0673 <td>.8</td> <td>·0±77</td> <td>-8</td> <td>0627</td> <td>.8</td> <td>·0818</td> <td>•8</td> <td>.1066</td> <td>.8</td> <td>.1386</td> <td>.8</td> <td>1800</td> <td>•8</td> <td>2280</td> <td>•8</td> <td>-2868</td>	.8	·0±77	-8	0627	.8	·0818	•8	.1066	.8	.1386	.8	1800	•8	2280	•8	-2868
'4 '0491 '4 '0644 '1 '0840 '4 '1095 '4 '1423 '4 '1814 '4 '2331 '4 '21 '6 '0495 '6 '0649 '6 '0818 '6 '1101 '6 '1135 '6 1859 '6 '2352 '6 '24 '8 '0500 '8 '0655 '8 '0855 '8 '1111 '8 '1118 '8 '1874 '8 '2370 '8 '22 3'0 '0504 9'0 '0661 15'0 '0863 21'0 '1124 27'0 '1161 33'0 '1888 39'0 '2388 45'0 '3 '2 '0506 '2 '0667 '2 '0870 '2 '1134 '2 '1473 '2 '1903 '2 '2406 '2 '3 '4 '0513 '4 '0678 '4 '1144 '1486 '4 '1918 '4 '2125 '4 '3 '6 '0518 '6 '0679 '6	2.0	.0785	8.0	0632	14.0	.0825	20.0	.1076	26.0	·1399	32.0	1815	38.0	*2298	41.0	2890
-6 .0495 .6 .0649 .6 .0818 .6 .1104 .6 .1435 .6 .1859 .6 .2352 .6 .226 -8 .0500 .8 .0655 .8 .0855 .8 .1114 .8 .1148 .8 .1874 .8 .2370 .8 .23 30 .0504 .90 .0661 .150 .0863 .210 .1124 .270 .1461 .330 .1888 .390 .2388 .450 .34 -2 .0569 .2 .0067 .2 .0878 .4 .1144 .2 .1473 .2 .1903 .2 .2406 .2 .34 -6 .0513 .4 .0673 .4 .0878 .4 .1144 .4 .1486 .4 .1918 .4 .2125 .4 .33 -8 .0523 .8 .0686 .6 .1164 .8 .1512 .8 .1949 .8 .2483 .8 .3 40 .0527 .100 .0681 <td>.2</td> <td>·0466</td> <td>.2</td> <td>•0638</td> <td>•2</td> <td>.0833</td> <td>•2</td> <td>1085</td> <td>•2</td> <td>1411</td> <td>•2</td> <td>·1830</td> <td>•2</td> <td>2316</td> <td>•2</td> <td>-2912</td>	.2	·0466	.2	•0638	•2	.0833	•2	1085	•2	1411	•2	·1830	•2	2316	•2	-2912
-8 ·06() ·8 ·0655 ·8 ·0855 ·8 ·1114 ·8 ·1149 ·8 ·1874 ·8 ·2370 ·8 ·22 370 ·0504 970 ·0661 1570 ·0863 2170 ·1124 270 ·1461 3370 ·1888 390 ·2388 4570 ·34 ·2 ·0509 ·2 ·0667 ·2 ·0870 ·2 ·1134 ·2 ·1473 ·2 ·1903 ·2 ·2406 ·2 ·34 ·4 ·0513 ·4 ·0673 ·4 ·0578 ·4 ·1114 ·4 ·1486 ·4 ·1918 ·4 ·2125 ·4 ·33 ·6 ·0518 ·6 ·0679 ·6 ·0886 ·8 ·1164 ·6 ·1499 ·6 ·1934 ·6 ·2443 ·8 ·3 ·8 ·0523 ·8 ·0685 ·8 ·0894 ·8 ·1164 ·8 ·1512 ·8 ·1949 ·8 ·2433 ·8 ·3 ·2 ·0532	.4	·0 4 91	.4	·0644	.1	·0840	.4	1095	•4	1123	•4	1814	.4	*2331	4	2934
370 ·0504 9·0 ·0661 15·0 ·0863 21·0 ·1124 27·0 ·1461 33·0 ·1888 39·0 ·2388 45·0 ·3 ·2 ·0509 ·2 ·0667 ·2 ·0870 ·2 ·1134 ·2 ·1473 ·2 ·1903 ·2 ·2406 ·2 ·3 ·4 ·0513 ·4 ·0673 ·4 ·0578 ·4 ·1144 ·4 ·1486 ·4 ·1918 ·4 ·2125 ·4 ·3 ·6 ·0518 ·6 ·0679 ·6 ·0886 ·6 ·1164 ·6 ·1499 ·6 ·1934 ·6 ·2444 ·6 ·3 ·8 ·0523 ·8 ·0685 ·8 ·0894 ·8 ·1164 ·8 ·1512 ·8 ·1949 ·8 ·2463 ·8 ·3 ·40 ·0527 ·10·0 ·0691 16·0 ·0902 ·22·0 ·1174 28·0 ·1528<	-6	0105	-6	·0649	•6	.0818	•6	1101	•6	1135	.6	1859	•6	•2352	•6	*2957
'2 '0509 '2 '0667 '2 '0870 '2 '1134 '2 '1473 '2 '1903 '2 '2406 '2 '3 '4 '0513 '4 '0673 '4 '0886 '6 '1144 '4 '1486 '4 '1918 '4 '2125 '4 '3 '8 '0518 '6 '0679 '6 '0886 '6 '1164 '6 '1489 '6 '1934 '6 '2443 '8 '3 '8 '0523 '8 '0685 '8 '0894 '8 '1164 '8 '1512 '8 '1949 '8 '2443 '8 '3 4'0 '0527 10*0 '0691 16*0 '0902 22*0 '1174 28*0 '1526 34*0 '1965 40*0 '2482 46*0 '3 '2 '0532 '2 '0697 '2 '0910 '2 '1184 '2 '1539 '2 '1980 '2 '2501 '2 '3 '4 '0537	-8	. 0500	•8	.0622	-8	-0855	.8	·1111	-8	1118	-8	1874	•8	2370	.8	2980
'4 '0513 '4 '0673 '4 '0578 '4 '1144 '4 '1486 '4 '1918 '4 '2125 '4 '3 '6 '0518 '6 '0679 '6 '0886 '6 '1154 '6 '1499 '6 '1934 '6 '2443 '6 '3 '8 '0523 '8 '0685 '8 '0894 '8 '1164 '8 '1512 '8 '1949 '8 '2463 '8 '3 4'0 '0527 10*0 '0691 16*0 '0902 22*0 '1174 28*0 '1526 34*0 '1965 40*0 '2482 46*0 '3 '2 '0532 '2 '0697 '2 '0910 '2 '1184 '2 '1539 '2 '1980 '4 '2520 '4 '3 '4 '0537 '4 '0704 '4 '0919 '4 '1195 '4 '1552	3.0	.0501	9.0	·0661	15.0	.0863	21.0	1124	27.0	·1161	33.0	1888	39.0	·2388	45.0	-3003
·6 ·0518 ·6 ·0679 ·6 ·0886 ·6 ·1154 ·6 ·1499 ·6 ·1934 ·6 ·2444 ·6 ·3 ·8 ·0523 ·8 ·0685 ·8 ·0894 ·8 ·1164 ·8 ·1512 ·8 ·1949 ·8 ·2463 ·8 ·3 40 ·0527 10·0 ·0691 16·0 ·0902 22·0 ·1174 28·0 ·1526 34·0 ·1965 40·0 ·2482 46·0 ·3 ·2 ·0632 ·2 ·0697 ·2 ·0910 ·2 ·1184 ·2 ·1539 ·2 ·1980 ·2 ·2501 ·2 ·3 ·4 ·0537 ·4 ·0704 ·4 ·0919 ·4 ·1195 ·4 ·1552 ·4 ·1996 ·4 ·2520 ·4 ·3 ·6 ·0542 ·6 ·0710 ·6 ·0927 ·6 ·1205 ·6 ·1566 ·6 ·2011 ·6 ·2539 ·6 ·3 ·8 ·0547	.2	•0509	.2	.0067	•2	.0870	.5	1134	•2	'1473	•2	1903	•2	*2406	•2	*3026
-8 -0523 -8 -0685 -8 -0894 -8 -1104 -8 -1512 -8 -1949 -8 -2463 -8 -3 40 -0527 10·0 -0691 16·0 -0902 22·0 -1174 28·0 -1526 3i·0 -1965 40·0 -2482 46·0 -3 -2 -0632 -2 -0697 -2 -0910 -2 -1184 -2 -1539 -2 -1980 -2 -2501 -2 -3 -4 -0537 -4 -0704 -4 -0919 -4 -1195 -4 -1552 -4 -1996 -4 -2620 -4 -3 -6 -0542 -6 0710 -6 -0927 -6 -1205 -6 -1566 -6 -2011 -6 -2539 -6 -3 -8 -0547 -8 -0716 -8 -0935 -8 -1216 -8 -1579 -8 -2027 -8 -2559 -8 -3 5-0 -0558	-4	•0513	4	0673	•4	.0578	•4	1114	•4	·1486	-4	1918	•4	2 125	•4	*3049
4'0 '0527 10'0 '0691 16'0 '0902 22'0 '1174 28'0 '1526 34'0 '1965 40'0 '2482 46'0 '3 '2 '0632 '2 '0697 '2 '0910 '2 '1184 '2 '1639 '2 '1980 '2 '2501 '2 '3 '4 '0537 '4 '0704 '4 '1995 '4 '1195 '4 '1552 '4 '1996 '4 '2520 '4 '3 '8 '0542 '6 0710 '6 '0927 '6 '1205 '6 '1566 '6 '2011 '6 '2539 '6 '3 '8 '0547 '8 '0716 '8 '0935 '8 '1216 '8 '1579 '8 '2027 '8 '2559 '8 '3 5'0 '0553 11'0 '0723 17'0 '0943 23'0 '1226 29'0 '1593 35'0 '2044 41'0 '2578 47'0 '3 '2	-6	.0518	•6	.0679	.6	.0886	•6	1154	•в	1499	.6	1934	•6	2444	•6	*3072
'2 '0632 '2 '0097 '2 '0910 '2 '1184 '2 '1639 '2 '1980 '2 '2501 '2 '3 '4 '0537 '4 '0704 '4 '0919 '4 '1195 '4 '1552 '4 '1996 '4 '2620 '4 '3 '6 '0542 '6 0710 '6 '0927 '6 '1205 '6 '1566 '6 '2011 '6 '2539 '6 '3 '8 '0547 '8 '0716 '8 '0935 '8 '1216 '8 '1579 '8 '2027 '8 '2559 '8 '3 5'0 '0553 11'0 '0723 17'0 '0943 23'0 '1226 29'0 '1593 35'0 '2044 41'0 '2578 47'0 '3 '2 '0558 '2 '0729 '2 '0951 '2 '1237 '2 '1608 '2 '2060 '2 '2588 '2 '3 '4 '0568	.8	.0523	.8	.0685	-8	.0891	•8	·1164	•8	.1512	•8	1949	*8	-2463	•8	*3094
'4 '0537 '4 '0704 '4 '0919 '4 '1195 '4 '1552 '4 '1996 '4 '2620 '4 '3 '8 '0542 '6 0710 '6 '0927 '6 '1205 '6 '1566 '6 '2011 '6 '2539 '6 '3 '8 '0547 '8 '0716 '8 '0935 '8 '1216 '8 '1579 '8 '2027 '8 '2559 '8 '3 5'0 '0553 11·0 '0723 17·0 '0943 23·0 '1226 29·0 '1593 35·0 '2044 41·0 '2578 47·0 '3 '2 '0558 '2 '0729 '2 '0951 '2 '1237 '2 '1608 '2 '2060 '2 '2598 '2 '3 '4 '0563 '4 '0736 '4 '0960 '4 '1249 '4 '1622 '4 '2076 '4 '2619 '4 '3 '6 '0568	4.0	•0527	10.0	.0691	16.0	.0902	22.0	1174	28.0	1526	31.0	1965	40.0	2482	46.0	*3117
'6 '0542 '6 0710 '6 '0927 '6 '1205 '6 '1566 '6 '2011 '6 '2539 '6 '3 '8 '0547 '8 '0716 '8 '0935 '8 '1216 '8 '1579 '8 '2027 '8 '2559 '8 '3 5'0 '0553 11'0 '0723 17'0 '0943 23'0 '1226 29'0 '1593 35'0 '2044 41'0 '2578 47'0 '3 '2 '0558 '2 '0729 '2 '0951 '2 '1237 '2 '1608 '2 '2060 '2 '2598 '2 '3 '4 '0568 '4 '0736 '4 '0960 '4 '1249 '4 '1622 '4 '2076 '4 '2619 '4 '3 '6 '0568 '6 '0742 '6 '0968 '6 '1260 '6 '1636 '6 '2092 '6 '2639 '6 '3	'2	.0532	•2	·0697	.2	.0910	•2	1184	•2	1539	•2	1980	•2	2501	•2	*3140
'8 '0547 '8 '0716 '8 '0935 '8 '1216 '8 '1579 '8 '2027 '8 '2559 '8 '3 5'0 '0553 11'0 '0723 17'0 '0943 23'0 '1226 29'0 '1593 35'0 '2044 41'0 '2578 47'0 '3 '2 '0558 '2 '0729 '2 '0951 '2 '1237 '2 '1608 '2 '2060 '2 '2598 '2 '3 '4 '0563 '4 '0736 '4 '0960 '4 '1249 '4 '1622 '4 '2076 '4 '2619 '4 '3 '6 '0568 '6 '0742 '6 '0968 '6 '1260 '6 '1636 '6 '2092 '6 '2639 '6 '3	-1	*0537	•4	.0701	•4	-0919	-4	1195	-4	1552	-4	·1996	-4	*2520	-4	.3163
5·0 ·0553 11·0 ·0723 17·0 ·0043 23·0 ·1226 29·0 ·1593 35·0 ·2044 41·0 ·2578 47·0 ·3 ·2 ·0568 ·2 ·0729 ·2 ·0951 ·2 ·1237 ·2 ·1608 ·2 ·2060 ·2 ·2598 ·2 ·3 ·4 ·0563 ·4 ·0736 ·4 ·0960 ·4 ·1249 ·4 ·1622 ·4 ·2076 ·4 ·2619 ·4 ·3 ·6 ·0568 ·6 ·0742 ·6 ·0968 ·6 ·1260 ·6 ·1636 ·6 ·2092 ·6 ·2639 ·6 ·3	-6	*0542	•6	0710	.6	.0927	.6	1205	.8	1566	-6	2011	•6	2539	-6	*3187
-2 -0558 -2 -0729 -2 -0951 -2 -1237 -2 -1608 -2 -2060 -2 -2598 -2 -3 -4 -0563 -4 -0736 -4 -0960 -4 -1249 -4 -1623 -4 -2076 -4 -2619 -4 -3 -6 -0568 -6 -0742 -8 -0968 -6 -1260 -8 -1636 -6 -2092 -6 -2639 -6 -3	-8	*0547	*8	.0716	.8	*0935	-8	1216	-8	1579	-8	2027	•8	2559	-8	*3211
'4 '0563 '4 '0736 '4 '0960 '4 '1249 '4 '1622 '4 '2076 '4 '2619 '4 '3 '6 '0568 '6 '0742 '6 '0968 '6 '1260 '6 '1636 '6 '2092 '6 '2639 '6 '3	5.0	*0553	11.0	.0723	17.0	0943	23.0	1226	29.0	1593	35.0	2044	41.0	2578	47.0	-3235
18 18 18 19 19 19 19 19	•2	.0558	-2	-0729	.2	.0951	'2	1237	-2	1608	'2	2060	•2	2598	•2	·3260
	-4	-0563	.4	.0736	•4	-0960	-4	1249	-4	1622	•4	2076	•4	2619	•4	-3285
8 0673 8 0749 8 0977 8 1271 8 1650 8 2109 8 2659 8 3	-6	-0568	-6	0742	.8	.0968	.6	1260	-6	1636	-6	2092	-6	2639	.6	•3310
	-8	*0573	-8	10749	-8	*0977	-8	1271	-8	1650	-8	2109	-8	2659	-8	*3835
]	<u> </u>	1]					

TABLE III.

Table of the Elastic Force of Vapour in inches of mercury in the latitude of 22° at sea-level, reduced from the table computed by the Reverend Robert Dixon from Regnault's original data—(continued).

			,		_==									,	
	Inch.	•	Inch.	o	Inch.	۰	Inch.	o	Inch.	0	Inch.	۰	Inch.		Inch.
48.0	· 3 359	54.0	· 4 187	60 0	·5193	66.0	6406	72 ·0	·7863	78·0	•9604	840	1.1676	90.0	1.4128
.2	·3384	•2	· 42 17	•2	•5230	•2	·6451	•2	7918	•2	9667	.2	1.1752	•2	1.4218
-4	*3409	•4	1219	•4	.5267	•4	•6495	-4	.7972	•4	9731	•4	1.1828	•4	1.4307
.6	-3135	-6	· 4 280	-6	·530 1	-6	6540	•8	*8025	.6	9795	•6	1.1904	.6	1.4397
*8	.3160	-8	· 4 311	.8	.5312	•8	-6586	•8	-8078	-8	9860	•8	1.1980	-8	1.1488
490	*3486	55 0	4341	61.0	•5379	67:0	•6631	73.0	*8132	79 0	-9926	85 0	1.2057	91.0	1.4579
.2	*3512	.2	· 4 372	.2	.5418	-2	·6676	•2	-8187	•2	.9992	•2	1.2135	•2	1.1670
•1	*3539	4	·4403	•4	•5456	•4	·67 2 2	•4	-8212	•4	1.0028	•1	1-2213	-4	1.4762
.6	*3564	.8	· 41 35	.6	*5495	•6	· 6 769	-6	*8297	.6	1.0124	.6	1.2291	.6	1.1821
8	•3591	-8	4467	•8	.2233	-8	·6 816	-8	*8353	•8	1.0190	•8	1.2369	•8	1.4947
500	·3617	56 0	·4 501	62 0	.5572	68 0	•6863	74.0	·8 41 0	80 0	1.0256	86 0	1 2 149	92.0	1.2011
•2	3611	.5	4534	-2	·5612	•2	•6909	•2	*8166	•2	1.0323	•2	1.2529	•2	1.2132
-4	·3671	.1	4567	•4	.5652	•4	•6956	•4	*8523	•4	1.0391	'4	1.2609	•1	1.5229
•6	*3698	·6	•16 00	•6	·5692	•6	·7001	•6	.8281	.6	1.0459	.6	1.2690	.8	1.5324
-8	*3725	•8	4633	*8	•5731	-8	.7052	*8	*8638	*8	1.0527	*8	1.2771	-8	1.2119
51.0	*3753	57.0	'4666	63.0	.2221	69 0	·7101	75.0	·8696	81.0	1 0596	87 0	1.2852	93.0	1.5515
.2	*3780	.2	· 4 700	-2	·5812	•2	7150	•2	·8751	•2	1.0664	•2	1.2931	•2	1.5612
-4	*3808	•4	1733	•4	•5853	•4	·7199	•4	.8812	· 4	1.0733	.4	1.3016	.4	1.5709
.6	*3×37	.6	4767	.6	.2491	•6	7219	.6	'8872	.8	1.0803	•6	1.3099	•6	1.5806
8	*3865	.8	4801	.8	*5935	•8	·7298	*8	.8931	.8	1.0871	.8	1.3182	*8	1.5904
52.0	*3893	58.0	·483 6	64.0	·597 6	70.0	7348	76.0	18990	82.0	1.0946	88.0	1.3266	94.0	1.6003
•2	·3921	.2	4870	.2	· 6 018	•2	.73 98	•2	.8010	•2	1.1018	'2	1.3350	.2	1.6102
.4	*3950	-4	· 4 905	·4	.6060	•4	*7448	•4	9109	•4	1.1090	•4	1.9134	.4	1.6202
.6	*3979	-6	4941	.6	·6102	•6	*7499	.6	·9169	.6	1.1162	•6	1.3519	•6	1.6303
.8	· 4 008	-8	4976	•8	·6145	•8	. 7550	•8	9230	.8	1.1234	*8	1.3605	*8	1.6403
53 ·0	*4037	59.0	·5011	65.0	· 618 8	71.0	·7602	77:0	9292	83.0	1.1306	89.0	1.3691	95.0	1.6504
•2	4067	•2	•5047	.2	· 623 1	•2	·7654	•2	9354	•2	1.1379	•2	1.3778	.2	1.6606
.4	*4096	-4	· 5 083	•4	·627-i	•4	·7706	.4	9117	•4	1.1123	-4	1 3865	4	1.6709
.6	· 4 126	-6	·5119	•6	· 63 18	-6	·7759	.6	19479	•6	1.1527	-6	1.3952	.6	1.0812
8.	·4156	•8	·5156	*8	·6362	•8	7811	•8	9542	*8	1.1601	•8	1.4040	-8	1.6915
		- (<u> </u>	·						'				

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°.

Wet bulb	450.400				Vali	UES OF t-	-t' in d	EGREES,	FAHRENH	EIT.				
ť.	0	0.2	1	1.5	2	2.2	3	3.2	4	4:5	5	5.2	6	6.2
o	.014	•038	-033	-027	·021	·015	.010	.004						
1	-016	*040	*035	027	021	.013	*012	.009						
2	.048	012	037	031	025	*019	012	*008	-002					
8	.050	-015	-039	.033	027	.022	.016	·010	.004					
4	.023	017	.041	.035	.030	024	.018	.012	.007	.001				
5	.055	.05 0	.044	.038	.032	∙026	'021	·015	.009	.003				
6	•058	.052	.078	.041	.035	.078	.023	.017	.012	.000				
7	.061	•055	.018	.013	.037	.032	•026	*020	.011	.009	.003			
8	.063	•057	*052	·0#6	.010	.034	.029	.023	.017	·011	'005			
9	-066	.080	·055	.078	.043	.037	.031	.026	.020	·014	'008	·002		
-														
10	•069	.063	·058	1052	.016	·0 1 0	·034	•029	.023	.017	.011	.002		
11	.072	*067	.061	·055	.019	.043	.038	*032	1026	.020	·014	.009	.003	
12	•076	*070	'064	.028	.052	.047	.041	.032	'029	.023	·018	.012	.006	
13	1079	.073	067	'062	.056	•050	'044	.038	.033	.027	.021	·015	.009	*004
14	*083	.077	'071	.065	'059	•053	-048	'012	.036	.030	'021	*019	.013	.007
15	*086	'081	'075	.069	.063	.057	'051	016	.040	.031	-028	.022	'017	'011
16 17	*090 *094	*081	'079	.073	.067	.061	·055	.049	.014	.038	.032	*026	·020 ·024	·015
18	*099	.088	·083 ·087	·077	·071 ·075	·065	.064	·054	·048 ·052	042	.036	·030 ·034	029	019
19	103	093	'091	.086	.080	009	.068	038	052	020	·040 ·045	'039	.032	023
	100									- 031	040	000		
20	108	·102	.096	-000	•084	-078	-073	*067	*061	.022	.049	.043	-038	•032
21	.112	107	101	095	.089	.083	.077	.072	.066	.080	054	048	042	.036
22	·117	.112	106	.100	.094	*088	082	.076	'071	°065	.059	'053	.047	.041
23	123	117	.111	105	.099	•093	-088	*082	076	•070	.064	.058	.052	*047
24	128	122	117	1111	•105	.099	.093	1087	.081	.076	≁070	'064	.058	*052
25	134	128	122	.116	110	'105	.099	.093	·087	.081	.075	.069	'064	*058
26	140	134	128	122	·116	-111	•105	-099	.093	*087	.081	.075	.070	.064
27	146	140	134	129	·123	117	.111	105	.099	.093	*087	.082	-076	· 07 0
28	·153	117	141	.135	129	123	.117	1111	.106	'100	1094	1088	-082	·076
29	•159	153	118	142	.136	130	124	118	'112	.106	·100	·095	-089	.083
20	-159	153	118	142	136	130	124	.118	112	.106	100	₩5	USS	

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

Wet					VALU	es of t-	- <i>t'</i> in di	GBEES,	FARRENH	BIT.				
bulb t.	7	7:5	8	8.2	9	9.5	10	105	11	11.2	12	12 5	13	13 5
0														
1														
2														
3														
4														
5														
6														
7														
8														
9								Į						
10														
11														
12														
13														
14	*001													
15	*005													
16	•009	.003												
17	.013	.007	•001											
18	*017	.011	•005											
19	*021	*015	*010	·004										
20	*026	•020	'014	.008	.003									
21	-031	025	.019	.013	*007	'0 01								
22	.036	.030	.024	.018	.012	.008								
23	'041	·035	.029	.023	·017	·011	.008							
24	*046	·04 0	.034	· 02 9	.023	.017	.011	.002						
25	*052	·046	•040	*034	'02 8	*023	.017	.011	*005					
26	*058	· 0 52	•046	*040	'034	· 02 8	.023	*017	.011	•005				
27	*064	830	*052	·0 1 6	·0 4 0	1035	·029	'023	.017	·011	•005			
28	·070	·064	•059	.053	047	·041	•035	*029	·023	.017	.012	.008		
29	1077	·071	.065	•059	•053	'048	.042	.038	•030	*024	.018	·012	•006	

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches in the latitude of 22° —(continued).

Wet hulb						7	ALUES	or t-	t' in I)egrei	s, Fai	(BENH)	EIT.					
ť.	0	0.5	1	1.2	2	2.5	3	35	4	4.2	5	5.2	6	6.2	7	7.5	8	8.2
30	167	·161	155	149	143	137	·131	•125	-119	114	.108	102	*096	.090	180	.078	.072	-066
31	171	.163	·162	-156	·150	.114	.138	.133	127	·121	·115	.109	.103	.097	.091	*085	080	.074
32	·182	175	.169	162	·156	•149	143	·136	130	123	.117	·110	·104	.097	.091	·084	.078	.071
83	189	182	·176	·169	·163	·15 6	15 0	113	·137	130	·124	117	.111	104	.098	.091	.085	.079
31	197	.190	.181	.177	-171	.164	•158	·151	145	·138	·132	·125	.119	.112	.102	.099	.092	086
35	-204	198	·191	185	178	172	165	159	.152	116	.139	.133	126	120	·113	107	·100	'094
36	213	206	200	193	187	180	174	.167	161	154	117	141	134	128	121	115	.108	102
37	221	215	208	201	195	188	182	175	169	.162	156	149	1143	136	130	123	.117	.110
38	230	223	217	210	201	·197	·191	181	178	171	.165	158	152	145	138	.132	125	119
39	239	.232	226	219	213	206	200	193	.187	180	174	167	.160	151	117	·141	·134	.128
40	248	212	235	•229	-222	216	209	202	·196	189	.183	·176	·170	·163	157	150	144	.137
41	258	251	245	238	.232	· 2 25	•219	•212	.205	199	192	186	179	.173	.166	160	153	117
42	268	261	.255	.218	.212	.235	•229	•222	•216	·209	203	196	169	183	176	•170	·163	•157
43	278	272	265	· 2 59	.252	216	.530	•232	*226	.219	.213	206	200	.193	187	.180	·173	.167
44	*289	282	.276	· 26 9	·263	*256	250	-213	.237	.230	•223	.217	210	204	·197	·191	181	.177
						269	.001	254	249	.047	*00"		-000		-000			
45	300	294	287	·281 ·292	·274	205	·261 ·272	266	259	·241 ·253	·235 ·246	·228 ·239	222	·215 ·226	208	202	'195	'189
46	312	·305	310	304	200	275	291	200	271	264	258	251	235	238	220	·213	·207	·200
48	336	317	323	316	310	303	296	290	283	277	270	263	257	250	244	225	218	.224
49	310	342	335	329	-322	.316	*309	302	296	289	283	276	270	263	256	250	243	237
50	.362	355	·349	.342	.332	·329	•322	*316	-309	.302	.296	289	.283	.276	.269	263	•256	250
51	.375	369	· 3 62	· 3 56	.349	·312	.336	· 3 29	.323	·316	.309	.303	· 29 6	*289	.283	276	270	•263
52	.386	.383	.376	370	.363	•256	•350	*343	•336	.330	·323	'317	. 310	.303	-297	290	284	.277
53	.404	.397	.391	'384	'377	.371	*364	*357	.321	.344	.338	.331	'324	.318	·311	·304	298	· 29 1
54	·419	412	406	.399	*392	*386	*379	*372	-366	*359	.353	*346	.839	-333	*326	*319	*313	-306
55	.434	· 42 8	421	414	.408	· 4 01	*394	*388	-381	*374	·368	.361	.355	*348	'341	.335	*328	*321
56	450	-444	437	· 43 0	·424	417	· 4 10	-404	.397	.390	384	*377	.871	*364	*357	*351	*344	.337
57	467	·460	458	-447	440	·433	·427	420	414	407	400	·394	.387	-380	374	·367	·360	·354
58	484	-477	·470	464	457	450	-444	·437	430	424	417	411	404	397	391	384	.377	.371
59	-501	494	488	461	475	468	461	455	448	441	435	·428	.421	415	408	401	•395	.386

TABLE IV.

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

Wet bulb		VALUES OF t-t' IN DEGEEES, FARENREIT.																
ť.	9	9.2	10	10.5	11	11.2	12	12.2	7, 13	13 5	11	11.2	15	15 5	16	16.2	17	17 5
30	.061	.055	049	.013	.037	.031	025	.019	.013	.008	.002							
31	.068	.062	.056	.050	.011	.038	.032	026	.021	.012	.009	.003		İ	1	1		
32	·065	.068	.052	045	.039	.032	·0 2 6	.019	.013	•006				1		1		
33	.072	.065	.059	.052	046	.039	.033	.026	1020	.013	.007				l	l	1	
34	.079	.073	.066	.060	.053	047	·0 4 0	.031	027	021	.014	.009	.001					
													'		-			
35	.087	.081	074	.068	.061	.055	•048	042	.035	.029	.022	.016	.009	.003			-	
36	.092	.089	.082	.076	.069	.063	.056	.050	.043	.037	.030	'021	017	.011	*004	1	1	
37	104	.097	.091	.081	.078	.071	*065	.028	.051	.012	.038	.032	.025	.019	012	.006		
38	.112	106	.099	093	.086	•080	.073	.067	.061	.051	017	041	.031	.027	021	014	.008	.001
39	·121	·115	.108	102	·095	.080	.082	·076	069	.062	.026	.049	.013	.636	.030	.023	.017	.010
	4707					_									.0.10			0.70
40 41	·131	·124	117	1111	101	.098	*092	·085	.078	·072	.065	.028	052 (61	·055	·039	032	·026	0.19
42	.150	133	·127	·120 ·130	1114	·107	·101	101	.088	'091	·075	078	(72	.062	013	012	.012	.039
43	160	154	137	·141	131	117	111	-1114	108	.101	085	.088	.082	1075	.069	.062	0.55	039
41	171	164	158	151	145	128	132	125	.118	112	105	.099	.092	.080	.079	.072	.066	.059
·																		
45	182	176	.169	.162	.156	149	113	136	130	.123	-116	-110	.103	-097	.090	.081	.077	.070
46	.193	187	.180	171	167	.161	154	117	111	.134	128	·121	.111	108	.101	*095	.088	.082
47	205	'198	192	.185	.179	172	• 166	159	152	.116	.139	.133	126	120	·113	106	100	.093
48	217	211	204	.198	.191	181	179	.171	.162	158	.151	145	.138	.132	125	119	112	.103
49	230	•223	.217	210	201	197	•190	184	.177	.171	.161	·157	.151	144	'138	.131	121	•118
					_										-			
50	243	•236	230	223	217	210	203	197	190	184	177	.170	161	.157	·151	114	·137	·131
51	256	250	243	237	230	.223	217	210	201	197	190	181	.177	171	·164	157	.151	.144
52	270	·264	-257	•250	244	237	'231	.234	.217	211	204	.198	.191	184	178	.171	·165	.156
53	.285	-278	.271	*264	-258	-252	.215	-238	-232	•225	218	.212	205	.199	192	185	179	17:
54	-300	-293	286	280	273	266	260	•253	-247	240	.233	227	.220	•213	207	200	1294	.182
			-				-			-				-	_			
55 -	.315	.308	302	*295	-288	-282	.275	-268	*262	.255	'248	•242	235	•229	*222	215	209	202
56	331	324	317	311	304	298	291	284	278	271	264	1	251	214	*238 *954	231	224	214
67 50	347	340	334	327	*321	314	307	301	294	287	281	274	'467 '284	261	254	247	241	25
58 59	364	1	351	344	357	331	324	317	1	304	1	1	301	1	288	282	275	,26
))) 331	0,0	308	901	000) (180) Salt) 000) 520) 521	})	1	1	1	1	1	1

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

Wet bulb						v	ALUES	OF t	t' IN I	EGREE	s, Fab	RENHE	IT.					
<i>t</i> ′.	18	18.2	19	19.5	20	20.5	21	21.2	22	22.2	23	23 5	24	21.5	25	25.2	26	26.5
30		•																
31																	l	
32																		
33						l										ļ		
31																		
35																		
36													İ					
37																		
38												ĺ	l					
39	.001																	
40	.013	.006					~											
41	022	.016	.009	.003							1		1					
42	.032	.026	.019	013	.006													
43	012	-036	.029	023	·016	.000	.003						ĺ					
41	.053	·046	.010	.033	0.27	.020	.013	.007										
45	.001	.057	·051	014	.038	.031	.024	.018	'011	*005								
46	.075	.068	.003	.022	049	.015	.036	.029	.022	.016	.009	.003						
47	.087	1060	.073	.067	.060	.021	.017	.011	.031	'027	*021	.014	.008					
48	.099	092	*086	.079	.072	.066	·(59	.023	.016	.039	.033	.026	.020	.013	*007			
49	·111	105	.098	.091	-065	·078	.072	.062	.059	*052	015	039	.032	∵26	.019	·012	.006	
												-						
50	124	118	1111	104	.098	.091	.085	.078	.071	.062	.028	.052	.012	.038	.032	.025	.019	.012
51	138	·131	124	.118	.111	101	•098	.091	.082	·078	071	.062	.058	.052	015	-038	.032	.025
52	151	145	138	.131	·125	.118	112	105	.098	.092	.085	.079	.072	·065	.029	·052	016	.039
53	165	159	152	116	139	132	·126	.119	.113	106	.099	.093	.086	.079	.073	.066	.060	.053
51	180	·174	167	.160	·154	·147	141	134	127	·121	-114	·107	·101	1094	.088	.081	·074	.068
55	·195	189	182	176	169	162	.156	'149	142	136	129	·123	·116	109	.103	.096	-089	.083
56	211	205	198	191	165	178	171	.165	158	.151	145	138	132	125	·118	112	105	.098
57	228	221	214	208	201	194	188	181	174	168	.161	154	148	141	135	128	121	.112
58	244	238	231	224	218	211	204	198	·191	184	178	171	164	158	151	115	138	.131
59	262	255	248	212	235	228	.222	215	208	202	·195	188	182	175	168	·162	155	148

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22° —(continued).

60 :519 61 :538 62 :557 63 :577 64 :598 -1 :598 :65 :66 :66 :66 :66 :66 :66 :66 :710 :70 :735 :71 :760 :72 :786 :73 :813 :74 :841 :168 :1060 :1026 :1095 :1096 :10	VALUES OF $t-t'$ IN DEGREES, FARRENHEIT.																	
61	0.2	0	1	1.5	2	2:5	3	3.2	4	1:5	5	5.5	6	6.2	7	7.5	8	8.5
62	.513	.519	3 .200	199	493	486	.479	473	-166	459	.453	.416	439	.433	426	419	413	.106
63 -577 64 -598 -65 -619 -66 -611 -67 -663 -65 -65 -65 -710 -72 -786 -72 -786 -73 -813 -74 -841 -75 -870 -76 -899 -77 -929 -78 -960 -79 -993 -6 -79 -993 -78 -79 -79 -78 -79 -79 -78 -79	.231	·538	1 '525	.518	.211	.202	.498	.101	·485	478	.471	465	·458	451	145	438	431	125
64 -598 -64 -598 -65 -661 -663 -665 -656 -656 -656 -656 -710 -72 -786 -73 -813 -74 -841 -75 -870 -76 -899 -77 -929 -78 -960 -79 -993 -66 -79 -993 -66 -79 -79 -78 -76	.221	·557	1 '511	•537	.231	'521	.217	.211	.204	1497	-491	181	.477	.470	1464	457	450	111
65 '619 66 641 67 663 65 656 656 656 69 '710 -760 72 '786 73 '813 74 '841 -160 79 '993 68 79 '993 68 1060 106	.570	577	0 .261	.557	-550	.214	.537	.230	.524	.212	.210	.504	•497	490	184	.477	170	•464
65 619 66 6611 67 663 66 656 69 710 72 786 73 7813 74 784 75 78 79 798 79 798 79 798 79 79	-591	598	1 '584	'578	.571	.261	'558	.221	.214	.537	'531	•524	.217	.211	*504	197	· 4 91	1481
66 '611 67 663 68 686 686 686 686 686 689 710 72 786 73 7813 74 7841 75 780 78 780 78 780 79 7829 78 79 7993 78 79 79 79 79 79 79 79	-	-	1-	 				-	-		-	-		-	-		\ 	
67 663 66 69 710 66 69 710 66 69 710 66 69 710 72 786 73 7813 74 784 75 78 7960 79 798 79 798 79 798 79 79	'612	619	2 005	-599	•592	.282	.579	.22	·565	.220	552	.515	-539	'532	*525	.218	.512	•505
68	.634	611	1 '627	621	·614	'607	.600	'594	.267	.280	574	*567	.260	*554	.517	.210	.233	.527
69	*656	- 1			.636	.630	.623	.616	.610	.603	.296	:589	.283	.576	.269	.263	*556	.249
70	.680	1		.666	.660	.623	.616	.639	.633	'626	.619	.613	.606	.599	'592	.286	.579	.572
71	'703	710	3 697	.690	.683	-677	'670	.663	.656	*650	613	.636	.630	'623	.616	.609	.603	.296
71	.728	735	721	.715	.708	.701	.695	*688	-681	.674	.668	-661	'651	-617	-641	-634	-627	.621
72	754			740	733	727	720	713	706	700	.693	.686	679	.673	.666	.659	-623	.610
74	.780			.766	.759	753	716	.739	732	.726	.719	712	.706	-699	-692	*685	.679	.672
75	-807	813	-800	.793	.786	780	.773	.766	.759	753	'746	739	.732	726	.719	.712	705	.699
76	*834	841	828	.821	·81 4	.807	.801	.794	787	.780	.771	.767	.760	.753	747	.740	.733	.726
76			-			_												
77	.863	870 .	.856	.819	843	1836	.829	*822	-816	.809	.802	.795	·789	.782	.775	·768	.762	.755
78	.893	899 -	*856	·o79	*872	-865	.828	.852	-845	*838	.831	*825	·818	.811	-804	·798	'791	.784
80 1 026 1 0 81 1 060 1 1 82 1 095 1 1 83 1 131 1 1 84 1 168 1 1	922	929 -	.916	.909	-902	*895	.889	.882	-875	·868	.862	.822	*848	·8 4 1	·834	*828	.821	·81 4
80 1 026 1 0 81 1 060 1 0 82 1 095 1 1 83 1 131 1 1 84 1 168 1 1	954	960 -	917	.040	.033	.927	920	.913	.906	.899	-893	.886	· 67 9	.872	.866	.859	.823	.815
81 1.060 1.0 82 1.095 1.0 83 1.131 1.0 84 1.168 1.0	·986	993	979	.972	.966	·959	952	·945	·938	.932	·925	-918	·911	·90 1	-898	.891	*884	·877
81 1.060 1.0 82 1.095 1.0 83 1.131 1.0 84 1.168 1.0		_	-															
82 1.095 1: 83 1.131 1: 84 1.168 1:	1 019	026 1	1.012	1.002	-998	.992	985	978	.971	. 965	.958	.6 21	·944	937	·931	924	.917	.910
83 1.131 1.	1.023	060 1	1.046	1.039	1.032	1.026	1.019	1.012	1.002	.998	992	1985	.978	971	965	*958	.951	944
84 1:168 1:	1.088	-	1.081	1.074	1.067	1.061	1.054	1.017	1.040	1.033	1.027	1.020	1.013	1.006	.999	.993	'986	979
	1.124			1.110	1.103	1.097	1.090	1.083	1.076	1.069	1.063	1.026	1.049	1.012	1.035	1.029	1.022	1.012
85 1.506 1.3	1.161	168 1.	1.127	1.147	1.140	1.134	1.127	1.120	1.113	1.106	1.100	1.093	1.086	1.079	1.072	1.065	1.059	1 052
50 1 200 I	1.100	208 1	1:100	1:102	1.170	1.172	7.10=	1:150	1-151	1:144	1.190	1.131	1.194	1-117	1.110	1.103	1.092	1.090
86 1.245 1.	1.199		1	1.185		1.172	1.165	1.192	1.180		1.177	1.120		1.126	1.149		1.138	
	1.278			1 1	1.218	1.251	1.507	1.237	1.531	1.224	1'217	1 1	1.203	1.196	1.190	1.183	1	1.169
	1.320	.	1	1 1	1.299	1.292	1.286	1.279	1.272	1.265	1.258	1.251		1.238	1.231	1.224		1.210
	1.362	- 1	ł		1.342	1.335	- 1	1.321	1.314	1.308	1.301	1.294	1.287	1.580	1.273	1.266	1.260	1.253

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°--(continued).

Wet bulb						VAL	UBS OI	t-t'	IN DEG	BEES,	Pahre	NEBIT.						
<i>t'</i> .	9	9.5	10	10.2	11	11.2	12	12.5	18	13.5	14	14.5	15	15.2	16	16.2	17	17.5
60	.399	.393	.386	379	373	.366	359	·353	·346	.339	.383	326	.319	.313	.306	300	·293	286
61	418	411	405	398	.391	385	378	371	.365	.358	351	345	-338	.331	325	.318	311	'305
62	437	430	424	417	410	1404	397	.390	384	.377	370	'364	357	350	344	337	-330	324
63	457	450	444	437	430	424	417	410	403	397	.390	.383	.377	370	.363	357	350	343
64	477	471	464	*457	451	·444	437	· 43 0	·424	·417	·410	.404	*397	.390	*384	*377	*870	·364
65	·498	•402	*485	·4/78	472	·465	·458	452	•445	438	·431	· 4 25	·418	·411	405	398	-391	.385
66	.520	.513	-507	.200	493	487	480	473	466	460	453	446	440	433	426	420	413	406
67	-542	.536	-529	.522	.216	.209	.502	496	489	482	.475	469	462	455	449	442	435	428
68	•566	•559	•552	545	.539	.532	.525	· 5 19	·512	.202	· 49 8	492	485	478	172	465	458	•45]
69	-298	*583	·576	·569	·562	-556	-549	•542	•535	·5 29	•522	'515	·509	·502	*495	198	482	-478
					*****		.573	*567	*560	-553	•547	'540	*533	•526	•520	.513	*506	•404
70	·614 ·639	·607 ·632	·626	·594 ·619	·587 ·612	·605	.288	592	.585	.579	.572	565	.558	.552	*545	538	.531	-52
71 72	*665	*658	652	*645	.638	*631	625	'618	·611	604	-598	591	.584	.577	.571	.564	557	.55
73	*692	.685	.678	-672	*665	-658	651	'645	-638	-631	624	.818	.611	604	-597	.591	.584	.57
74	·720	'713	.708	-609	-693	*686	· 679	.672	·666	·659	*652	645	-639	·632	1625	· 618	·612	.60
75	*748	'741	.735	'728	·721	'714	•707	·701	·694	*687	•680	-674	*667	.660	·653	-647	*840	•63
76	.777	.771	.764	.757	750	744	.737	.730	.723	.716	.710	.703	-696	-689	-683	-676	-669	-66
77	.807	.801	·794	.787	.780	.774	.767	·760	.753	.746	'740	.733	'726	.719	.718	*706	-699	.69
78	*838	*832	1825	*818	.811	*805	·798	.791	.781	.778	'771	764	.757	.750	714	.737	'730	.72
79	'871	*864	*857	-850	-843	*837	.830	*823	.818	.810	.803	·796	·789	·78 2	'776	769	.762	.75
80	.903	-897	.890	-883	*876	.870	-863	-856	1849	-842	-836	*829	-822	-815	-808	*802	*795	*78
81	937	931	924	917	910	.803	*897	.890	.883	*876	.869	.883	'858	.849	-842	-835	1829	-82
82	972	965	.959	.952	*945	*938	.931	*925	918	.911	904	1897	.891	*884	.877	.870	.863	-88
83	1.008	1.001	994	*988	.981	.974	967	1960	954	1947	940	933	926	920	.913	.806	*899	.86
84	1.045	1.038	1.031	1.025	1.018	1.011	1.004	-997	.991	'984	-977	*970	.963	-956	'950	943	*936	.9:
85	1.083	1.076	1.089	1.063	1.058	1.049	1.042	1.035	1.028	1.022	1.012	1.008	1.001	994	.988	981	974	-96
86	1.122	1.112	1.108	1-102	1.092	1.088	1.081	1.074	1.067	1.061	1.054	1.047	1.040	1.033	1.026	1.020	1.013	1.00
87	1.162	1.152	1.149	1.142	1.132	1.128	1.121	1.114	1.108	1.101	1.094	1.087	1.060	1.073	1.067	1.060	1.053	1.04
88	1.203	1.197	1.190	1.183	1.176	1.169	1.162	1.156	1.149	1.142	1.135	1.128	1.121	1.112	1.108	1.101	1.094	1.00
89	1.248	1.239	1-232	1.225	1.219	1.212	1.205	1.198	1.191	1.184	1.177	1.171	1.164	1.157	1.120	1.143	1.186	1.13

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(continued).

Wet bulk						VAI	LUBS O	p t—t'	IN DE	GREES,	FAHR	enheit						
ť.	18	18.2	19	19.5	20	20.2	21	21.5	22	22.5	23	23 5	24	24 5	25	25 5	26	26 5
60	280	273	266	260	253	246	240	233	226	220	213	208	200	193	186	180	173	·166
61	298	291	285	278	271	265	258	.251	245	238	231	225	218	211	205	198	191	185
62	.317	.810	·304	-297	290	284	277	270	264	257	250	244	237	230	224	217	210	201
63	.337	.330	.323	.317	.310	.303	297	290	283	277	270	263	256	250	243	236	230	.223
64	-357	*350	314	·337	330	.323	·317	.310	-303	297	290	283	277	270	263	·257	•250	243
65	378	371	365	358	351	*344	-338	•331	324	-318	-311	304	298	291	281	-278	271	26
66	-399	393	386	379	373	366	359	353	346	-339	332	326	319	312	306	299	292	286
67	422	415	408	412	395	.388	382	•375	.368	.361	*355	348	341	.335	328	321	314	*30
68	445	438	431	425	418	411	404	-398	391	384	378	371	364	357	351	341	337	.33
69	·468	462	455	448	441	•435	428	· 42 1	· 4 15	· 4 08	.401	391	'388	.381	374	368	.361	*35
70	193	-486	-479	473	·466	-459	-452	-446	· 4 39	-432	•426	-419	·412	105	-399	392	-385	.37
71	*518	.211	504	-498	•491	.484	478	.471	464	457	451	.444	•437	•430	.421	417	.410	-40
72	.544	.537	.530	*524	.517	·510	.503	-407	·490	483	476	.470	463	156	.419	443	.436	.12
73	-570	-564	.557	550	.544	·537	.230	.523	·517	.210	•503	·496	•490	493	.476	169	463	-44
74	-598	·591	•585	·578	.571	·564	.228	·551	·5 44	•537	·531	·524	·517	·510	•504	·497	·490	-48
75	*626	-620	.613	-606	.599	-593	.586	.579	-572	-566	.559	.552	*545	-539	.532	-525	-518	'51
76	-656	.649	642	.635	-629	-622	·615	-608	-601	.595	.588	.581	.574	-568	.561	.554	-517	.54
77	-686	-679	•672	-663	·658	-652	-645	-638	·631	.625	.618	.611	604	-598	-591	.584	.577	-57
78	.717	.710	.703	-696	.689	.683	.676	-669	662	· 6 56	-649	-642	•635	-628	-622	-615	•608	.60
79	.748	•742	·735	728	·721	·715	.708	701	·694	-687	-681	.674	·667	.660	'654	·647	.640	-63
	.701		-768		.754	-747	.741	734	727	•720	713	-707			· 6 86	-679	-673	-66
80	·781 ·815	·774 ·808	-801	·761 ·795	788	781	774	787	761	754	713	740	700	.693	720	713	706	.70
81	815	*843	836	1829	-823	.816	.809	-802	795	789	782	.775	733	761	755	748	741	75
82 83	1886	879	872	865	*858	-852	845	*838	.831	-824	817	-811	1804	701	790	783	777	-77
83 84	922	916	909	902	-895	-888	881	875	.868	.861	854	847	841	1834	827	-820	-813	-80
														_				_
85	-960	953	947	940	·93 3	-926	.919	912	·906	-899	*892	*885	*878	-872	-865	-858	-851	.84
86	-999	1992	*985	979	972	-965	.958	951	.944	-938	.931	.924	'917	.910	904	-907	.890	.86
67	1.039	1.032	1.026	1.019	1.013	1.005	1998	.891	985	.978	971	-964	'957	950	944	.937	.930	-92
88	1.080	1.074	1.067	1.060	1.023	1.046	1.039	1.032	1.026	1.019	1.013	1.002	-998	.991	.982	.978	'971	191
89	1.123	1.116	1.109	1.102	1.095	1.088	1.082	1.075	1.068	1.061	1.054	1.047	1.040	1.034	1.027	1.020	1.013	1.0

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22° —(continued).

Wet bulb						VA	LUES O	y t—t'	IM DE	GREES,	FAHR	ENHEI:	e.					
ť.	27	27.5	28	28 5	29	29 5	30	30.2	31	31.2	32	32.2	33	33.5	34	34.2	35	35•5
55	·076	.069	•063	.056	.05 0	.043	.036	.030	.023	.016	-010	.003						
56	-092	*085	.078	.072	-065	-059	.052	.045	.039	.032	1025	.019	.012	1005				
57	·108	·101	*095	.088	•081	.075	*068	.061	.055	.048	.011	•035	028	.022	.015	.008		
58	125	118	·111	105	.098	.091	.082	.078	.071	.065	-058	•051	045	.038	.032	.025	.018	-012
59	142	·135	·128	·122	·115	·108	-102	·095	.089	.082	.075	.069	.062	.055	049	.042	.035	*029
80	·160	153	·146	.140	.133	·126	120	·113	106	.100	.093	*086	.080	.073	.066	.080	.053	.046
61	·178	·171	165	158	151	145	.138	·131	125	.118	111	105	.098	·091	.085	.078	.071	.065
62	197	'190	.183	.177	170	163	157	.150	143	137	130	·123	117	110	.103	.097	· 0 90	.023
63	216	210	.203	196	·190	183	176	170	163	·156	150	113	136	130	123	·116	·110	103
61	·237	· 23 0	.223	·217	210	.203	.196	·190	183	·176	·170	·163	·156	·150	143	·136	-130	123
65	257	251	211	.237	231	.224	217	.211	204	197	.191	184	.177	.170	.164	.157	.150	114
66	279	.272	-265	.259	.252	245	.239	.232	.225	.219	.212	205	198	·192	·185	178	.172	·165
67	.301	291	288	281	271	.269	261	.254	217	211	231	.227	.221	214	.207	200	194	187
68	324	'317	3 10	.301	297	290	281	.277	270	*264	257	250	243	237	230	-223	.217	210
69	*347	'311	.331	·327	·320	.314	307	.300	291	287	280	•273	.267	·260	.253	217	240	.233
70	.372	.365	358	*352	*345	-338	.331	·325	.318	·311	.304	298	291	284	278	271	.264	-257
71	397	.390	.383	.377	·370	.363	.356	350	343	.336	329	323	.316	.309	.303	296	289	.282
72	423	· 1 16	.109	102	-396	.389	.382	·37o	.369	.362	355	·348	.342	•335	*328	.321	*315	*308
73	149	442	436	•429	422	'415	409	402	*395	.388	.382	.375	.368	.361	355	.348	·3 1 1	334
74	477	470	.463	· 1 56	· 45 0	•443	436	· 1 29	· 423	· 4 16	· 4 09	·402	.396	.389	382	.375	-36 9	·362
75	.202	198	-491	·485	-478	.471	*461	•457	.151	·411	*437	•130	424	-417	·410	*403	*397	.390
76	.531	-527	.520	.514	.507	•500	493	487	480	473	466	459	453	146	•439	432	426	419
77	·564	557	.550	543	•537	.530	·523	.516	· 510	.503	496	· 4 89	482	4/76	469	462	· •455	·449
78	.595	·588	·581	-574	.567	·561	.551	·517	540	.534	.527	. 520	· 5 13	·506	•500	4.93	486	·479
79	·626	· 62 0	·613	.606	.299	·5 9 3	·586	·579	.572	·565	•559	•552	·545	· 53 8	·531	·525	*518	· 5 11
80	•659	-652	*645	.639	-632	-625	·618	612	.605	-598	.591	*584	•578	.571	*564	*557	•550	.544
81	693	.686	679	672	.686	.659	652	645	.638	.632	625	618	611	604	•598	•591	584	•577
82	727	721	714	.707	700	.693	687	'680	673	.666	.659	.653	.646	-639	632	625	·619	·612
83	763	756	749	743	736	.729	722	715	709	.702	.095	·688	·681	·675	·668	·661	.654	1647
84	.800	793	796	•779	772	766	759	752	*746	·738	·732	·725	718	711	704	·697	.691	·684
85	837	.831	*824	*817	'810	.803	·797	·7 9 0	783	776	*769	762	·758	749	.742	·735	.728	'721

TABLE IV,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches and in the latitude of 22°—(concluded).

Wet	1				Vai	URS OF	<i>t—t'</i> in i	egrf es,	FAHRLN	HEIT.				
bulb t'.	36	36.2	37	37 5	38	38.5	39	39 5	40	40.2	41	41.5	42	42 5
55		1		1										1
56														
57														
58	.002													1
59	'022	.012	•009	.002										
60	.040	.033	.026	020	.013	.008								
61	.058	.021	.045	.038	.031	.022	.018	.011	.002					
62	.077	.070	.063	.057	.050	.043	.037	.030	.023	'017	.010	.003		
63	.096	.089	.083	.076	.069	.063	-056	.049	.013	.038	.029	.023	.016	.009
64	.116	.110	.103	.006	.089	.083	.076	.069	.063	-056	.010	.013	0.36	.029
65	137	.130	124	117	.110	.103	.097	.090	.083	.077	.070	.063	.057	.020
66	158	152	145	'138	132	125	.118	.111	105	.023	.091	.082	.078	.071
67	.180	174	.167	160	151	117	140	.133	127	120	113	107	100	.093
68	-203	.196	190	183	.176	.170	.163	155	119	113	.136	129	122	116
69	·226	•220	·213	206	200	.193	.186	179	·173	.166	.129	.153	146	.139
70	.251	244	•237	231	*224	217	210	201	197	190	183	177	170	.163
71	.276	.269	.262	*255	249	.242	235	.229	-223	215	.208	202	195	188
72	.301	295	· 2 88	-281	274	*268	.261	254	217	241	'231	-227	220	.214
73	·328	.321	·314	·307	.301	294	.287	.261	274	.267	.260	*254	.247	210
74	·355	.318	·3 42	·335	*328	321	·315	.308	-301	291	288	-281	274	-267
75	.383	-376	.370	*363	*356	'347	.343	.336	*329	.322	.316	-309	.302	.295
76	412	·405	.399	-392	*385	.378	.372	.365	.358	.351	·3 14	-338	.331	*324
77	.442	435	428	.422	415	·408	· 4 01	·394	.388	.381	·374	-367	.361	.354
78	· 4 73	·466	· 4 59	452	· 44 5	·139	•432	· 42 5	·4 18	•412	405	-398	·391	·384
79	· 5 0 4	·498	· 1 91	·484	· 4 77	·170	·161	157	450	443	· 4 37	· 13 0	423	· 4 16
80	•537	•530	.523	.517	·510	'503	-496	'489	·483	· 4 76	169	·462	·456	.110
81	.570	·564	·557	•550	.543	.236	•530	.523	·516	.5/19	.502	· 496	· 4 89	·482
82	.602	· 59 8	·591	·585	·578	·571	·561	.257	·551	514	.537	•530	·523	·517
83	640	·634	·627	·620	·613	·606	·600	.203	·586	·579	.572	·566	•559	·552
84	.677	670	-663	657	·650	643	·636	.629	·62 3	·616	•609	·602	·595	·588
85	715	*708	'701	'694	·687	·681	·674	.667	-660	·653	·616	*640	.633	·626

TABLE V,

For finding the Relative Humidity of the Air, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches.

Wet					Valu	vs of t-	-t' in di	grees, l	AHBENH	EIT.				
bulb t'	0	05	1	1.2	2	2 5	3	35	4	4.2	5	5.2	6	6.2
0	100	84	70	57	44	31	19	7						
1	100	85	71	58	46	33	22	11						
2	100	86	73	60	48	36	25	11	3					
8	100	87	74	61	50	3 8	28	17	7					}
4	100	87	75	63	52	41	30	20	11	2				
5	100	88	76	61	54	43	33	23	14	5				
6	100	88	76	65	56	45	35	26	17	8				:
7	100	88	77	67	57	47	37	28	19	11	4			
8	100	89	78	68	58	49	10	31	22	14	7			
9	100	89	78	69	60	51	42	83	25	17	10	2		
10	100	89	79	70	61	53	44	36		20	13	6		
11	100	90	79	71	62	51 ₁	46	38	28 30	23	16	9	3	
12	100	90	80	72	63	55	48	40	33	25	19	12	6	
13	100	90	81	73	65	57	4.9	41	35	28	21	15	9	3
14	100	91	82	71	66	58	50	43	36	30	23	18	12	6
15	100	91	83	75	67	59	52	45	39	33	26	20	15	9
16	100	91	83	76	68	61	54	47	41	35	29	23	17	12
17	100	92	84	76	69	62	56	49	43	37	31	26	20	15
18	100	92	84	77	70	63	57	51	44	39	33	28	23	18
19	100	92	85	78	71	61	58	52	46	41	35	30	24	20
20	100	93	86	79	72	65	59	53	48	42	37	32	27	22
21	100	93	86	79	72	66	60	55	49	44	39	34	29	25
22	100	93	86	80	73	67	61	56	51	46	41	36	31	27
23	100	93	87	80	74	68	63	57	52	47	42	37	33	29
24	100	93	87	81	75	69	64	59	53	49	44	39	35	81
25	100	93	87	81	75	70	65	60			45	41	37	33
26	100	94	88	82	76	70 71	66	61	55 56	50 51	47	42 42	38	35
27	100	94	88	82	77	71 72	67	62	57	53	48	44	40	36
28	100	94	88	82	77	72	68	63	58	54	50	40	42	38
29	100	94	88	83	78	73	68	64	59	55	51	47	44	40

TABLE V,

For finding the Relative Humidity of the Air, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches—(continued).

, , ,								1917 THE						
Wet					VALU	es of t-	-t' in de	GREES, I	AHRBNI	BIT.				
Wet bulb t'			. (0.5		0.5	10	2015		11.0		1		
	7	7:5	8	8.2	9	9.5	10	10.2	11	11.2	12	12.5	13	13.2
0														
1														
2														
3														
4														
5														
6														
7														
8														
9														
ļ														
10														
11														
12														
13														
14	1													
15	4													
16	7	2												
17	10	5	1											
18	13	8	4											
19	16	11	7	3										
20	18	13		6										
20	20	17	9 12	8	2 5	1								
22	23	19	14	11	7	4								
23	25	21	17	13	10	7	3							
24	27	23	19	16	13	9	6	8						
	-													
				•										
25 26	29 31	25 27	21 23	18 20	15 17	12 14	8	5	2 5					
27	31	29	23 25	20 22	17 19	16	13	8 10	7	2	2			
28	34 34	30	27	24	21	18	15	12	9	7	4	1		
29	36	32	29	26	23	20	18	15	12	9	7	4	1	
					<u> </u>		<u> </u>		<u> </u>				J	

TABLE V,

For finding the Relative Humidity of the Air, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches - (continued).

Wet	<u> </u>	<u></u>				,	ALUBE	or <i>t</i> -	-t' in :	DFGREI	ES, FAI	IRENH	RIT.					
bulb t'.	0	05	1	15	2	25	3	35	4	45	5	55	6	65	7	75	8	85
30	100	91	90	85	79	74	69	64	60	56	53	49	45	41	37	34	31	28
31	100	94	90	85	79	74	69	65	62	58	54	50	47	43	39	36	33	30
32	100	91	90	86	79	75	70	65	61	57	53	49	45	41	38	34	31	28
33	100	94	90	85	80	75	70	66	62	58	54	50	46	43	39	36	33	30
34	100	95	90	85	80	76	71	67	63	59	55	51	48	11	41	37	34	31
			<u> </u>					-										
35	100	95	90	86	81	77	72	68	64	60	56	53	49	16	42	39	36	33
36	100	95	91	86	81	77	73	69	65	61	57	54	50	47	14	40	37	34
37	100	95	91	86	82	78	71	70	66	62	58	55	51	48	45	42	39	36
88	100	95	91	87	82	78	71	70	66	62	59	56	53	49	46	43	40	37
39	100	95	91	87	83	79	75	71	67	63	60	57	53	50	47	44	41	38
													 					
40	100	95	92	87	83	79	75	72	68	64	61	57	54	51	48	45	43	40
41	100	95	92	88	83	79	76	72	68	65	62	58	55	52	10	46	41	41
42	100	96	92	88	81	80	76	73	69	66	63	59	56	53	50	47	45	42
43	100	96	92	88	81	80	77	73	70	66	63	60	57	51	51	48	46	43
44	100	96	92	88	81	81	77	74	71	67	64	61	58	55	52	449	47	44
										_				<u> </u>				<u></u>
45	100	96	92	89	85	81	78	74	71	68	65	62	59	56	53	50	48	45
46	160	96	93	89	85	82	75	75	72	69	66	63	60	57	54	51	40	46
47	100	96	93	89	85	82	79	75	72	69	66	63	61	58	53	52	50	47
48	100	96	93	89	86	82	79	76	73	70	67	64	61	59	56	53	51	48
49	100	96	93	90	86	83	79	76	73	70	68	65	62	59	57	54	52	40
							 											
50	100	96	93	90	86	83	8C	77	74	71	68	65	63	60	58	55	53	50
51	100	96	93	90	86	83	80	77	71	71	69	66	63	61	58	58	54	51
52	100	96	93	90	87	84	80	78	75	72	69	67	64	61	59	57	55	52
53	100	96	94	90	87	84	81	78	75	72	70	67	65	62	60	57	55	53
54	100	96	94	91	87	84	81	78	76	78	70	68	65	63	60	58	56	54
55	100	97	94	91	87	84	81	79	76	73	71	68	66	63	61	59	57	55
56	100	97	91	91	88	85	82	79	76	74	71	69	67	64	62	60	58	55
57	100	97	94	91	88	85	82	79	77	74	72	69	67	65	63	60	58	56
58	100	97	94	91	88	85	82	80	77	75	72	70	68	65	63	61	59	57
59	100	97	94	91	88	85	83	80	78	75	73	70	68	66	64	62	60	58

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 297 inches—(continued).

Wet						V	LUES	OF <i>t</i> —(' IN D	EGREES	, Fah	BENHE	IT.					
bulb t.	9	95	10	105	11	11 5	12	12 5	13	13 5	14	14 5	15	15 5	16	165	17	17 5
30	25	22	20	17	15	12	9	7	5	8	1							
31	27	24	22	19	16	14	12	9	7	5	8	1		l				
32	25	22	19	16	13	11	9	6	4	2							1	
83	27	24	21	18	15	13	11	8	6	4	2							
34	28	25	23	20	17	15	13	10	8	6	4	2						
			<u>'</u>							_								_
35	30	27	25	22	19	17	15	12	10	8	6	4	2	1		ĺ		
36	31	29	26	24	21	19	16	14	12	10	8	6	5	3	1			
37	33	30	28	25	23	20	18	16	14	12	10	8	6	5	3	1	_	
38	34	32	29	27	24	22	20	18	16	14	12	10	8	6	5	3	2	1
39	36	33	31	28	26	24	22	20	18	16	14	12	10	9	7	5	4	2
40	0=			30	90	26	24	22	10	10	10	14		-				
41	37 38	35 36	32 34	31	28 29	27	25	23	19 21	18 19	16 18	14 16	12 14	10 12	9 10	7 9	6	4
42	40	37	35	33	31	29	27	25	23	21	19	17	15	14	12	11	9	6 8
43	41	39	36	34	32	30	28	26	24	22	21	19	17	15	14	12	11	9
44	42	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	12	11
45	13	41	90	37	35	33	31	29		25	00	90	00	10				10
46	44	41 42	39 40	38	36	34	32	30	27 28	25 26	23 25	22 23	20 21	18 20	17 18	15 17	14	18 14
47	45	43	41	39	37	85	33	31	29	28	26	24	23	21	20	18	17	15
48	46	44	42	40	38	36	34	32	31	29	27	25	24	22	21	19	18	17
49	47	45	43	41	39	37	3 5	33	32	80	28	27	25	24	22	20	19	18
50	48	46	44	42	40	38	36	35	33	31	30	28	26	25	23	22	21	19
51	49	47	45	43	41	39	38	36	34	32	31	29	28	26	24	23	22	21
52	50	48	46	44	42	40	39	37	35	33	32	30	29	27	26	24	23	22
53	51	49	47	45	43	41	40	38	36	34	33	31	30	28	27	26	24	23
* 54	52	50	48	46	44	42	40	39	37	35	34	32	31	29	28	27	26	24
55	53	51	40	47	45	43	41	40	3 8	37	35	34	32	31	29	28	27	25
56	53	52	49	48	46	44	42	41	89	38	36	35	33	32	30	29	28	26
57	54	52	50	48	47	45	43	42	40	39	37	86	34	33	31	30	29	27
58	55	53	51	40	47	46	44	43	42	40	38	37	35	34	32	81	30	28
59	56	54	52	49	48	46	45	43	42	41	39	38	86	35	33	32	31	29

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t thermometers at the mean barometric pressure of 29.7 inches-(continued)

						V.	LUES	or t-t	' IN DI	EGRRES	, FARE	ENHEI	T.					
Wet bulb t'	18	185	19	19 5	20	20 5	21	21 5	22	22 5	23	23 5	24	24.5	25	25 5	26	26 5
30 31 32 33																		
35 35 36 37																		
39 	1 3	1 3		1														
42 48 44	8 10	5 7 8	4 5 7	2 4 6	1 3 5	1 8	1 2	1										
45 46 47 48 40	11 13 14 15 17	10 11 13 14 15	9 10 12 13 14	7 9 10 12 13	6 8 9 10 12	5 7 8 9 11	5 7 8 10	3 4 6 7 9	2 3 5 6 8	1 1 4 5 7	1 3 4 6	2 4 5	1 3 4	2 3	1 2	1	1	
50 51 52 53 54	18 19 21 22 23	17 18 19 20 22	15 17 18 19 20	14 16 17 18 19	13 15 16 17 18	12 13 15 16 17	11 12 14 15 16	10 11 13 14 15	9 10 12 13 14	8 10 11 12 13	7 9 10 11 12	6 8 9 10 11	5 7 8 9	5 6 7 9	4 5 6 8	3 4 6 7 8	2 3 5 6 7	1 3 4 5 6
55 56 57 58 59	24 26 26 27 28	23 24 25 26 27	22 23 24 25 26	20 22 23 24 25	19 21 22 23 24	18 20 21 22 23	17 19 20 21 22	16 18 19 20 21	15 17 18 19 20	14 16 17 18	13 15 16 17 18	13 14 15 16 17	12 13 14 15 16	11 12 13 14 15	10 11 12 13	9 10 11 12 18	8 10 11 12 13	8 9 10 11 12

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches—(continued).

Wet						V.	LUES	or <i>t</i> -1	' IN D	egrees	, FAH	RENHE	T.					
bulb t'.	0	0.2	1	1.2	2	2.5	3	3.2	4	45	5	5.2	6	6.2	7	7.5	8	8.2
60	100	97	94	91	89	86	83	80	78	78	73	71	69	66	64	62	60	58
61	100	97	94	92	89	86	84	81	78	76	73	71	69	67	65	63	61	59
62	100	97	94	92	89	86	84	81	79	76	74	72	70	67	65	63	61	59
63	100	97	95	92	89	87	84	81	79	77	74	72	70	68	66	64	62	60
64	100	97	95	92	89	87	84	82	79	77	75	73	70	6 8	66	64	62	60
															-			
65	100	97	95	92	89	87	85	82	80	77	75	73	71	69	67	65	63	61
66	100	97	95	92	90	87	85	82	80	78	76	73	71	69	67	65	63	61
67	100	97	95	92	90	87	85	83	80	78	76	74	72	70	68	66	61	62
68	100	97	95	92	90	88	85	83	81	78	76	74	72	70	68	66	61	62
69	100	97	95	92	90	88	85	83	81	79	76	74	72	71	69	67	65	63
70	100	97	95	93	90	88	86	83	81	79	77	75	73	71	69	67	65	63
71	100	98	95	93	90	88	86	81	81	79	77	75	73	71	70	68	66	61
72	100	98	95	93	90	88	86	84	82	79	77	75	74	72	70	68	66	64
73	100	98	95	93	90	88	86	84	82	80	78	76	74	72	70	68	67	65
74	100	98	95	93	91	88	86	84	82	80	78	76	74	72	71	69	67	65
75	100	98	95	93	91	89	86	84	82	80	78	76	74	73	71	69	67	65
76	100	98	95	93	91	89	87	85	82	80	78	77	75	73	71	69	68	66
77	100	98	95	93	91	89	87	85	83	81	79	77	75	73	72	70	68	66
78	100	98	95	93	91	89	87	85	83	81	79	77	75	74	72	70	68	67
79	100	98	96	93	91	89	87	85	83	81	79	77	76	74	72	70	69	67
												<u> </u>						
- 80	100	98	96	93	91	89	87	85	83	81	79	78	76	74	72	71	69	68
81	100	98	96	93	91	89	87	85	83	81	80	78	76	74	73	71	69	68
82	100	98	96	94	91	89	87	85	84	82	80	78	76	75	73	71	70	68
83	100	98	96	94	91	89	88	86	84	82	80	78	77	75	73	72	70	69
84	100	98	96	94	92	90	88	86	84	82	80	79	77	75	74	72	70	69
85	100	98	96	94	92	90	88	86	84	82	81	79	77	76	74	72	71	69
86	100	98	96	94	92	90	88	86	84	82	81	79	77	76	74	73	71	70
87	100	98	96	94	92	90	88	86	84	83	81	79	78	76	74	73	71	70
88	100	98	96	94	92	90	88	86	85	83	81	79	78	76	75	78	72	70
89	100	98	96	94	92	90	88	86	85	83	81	80	78	77	75	73	72	71

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 29.7 inches—(continued).

Wet						V.	LUBS	0¥ t—t	IN DI	GBELS,	, FARS	ENHEI	r.					
bulb #	9	9.2	10	10'5	11	11.2	12	12.2	13	13.2	14	14.5	15	15.2	16	16.2	17	17.5
60	56	51	53	51	49	47	46	44	43	41	40	38	37	35	34	33	31	30
61	57	55	53	52	50	48	46	45	43	42	40	39	38	36	35	34	32	31
62	57	56	54	52	51	49	47	45	41	43	41	40	38	37	36	34	33	32
63	54	56	55	53	51	50	48	46	45	44	42	41	39	38	37	35	34	33
61	58	57	55	51	52	50	40	47	4/6	44	43	41	40	38	37	36	35	34
65	59	57	56	51	53	51	49	48	46	45	43	42	41	40	38	37	36	35
68	60	58	56	55	53	52	50	48	47	46	41	43	42	40	39	38	36	35
67	60	59	57	55	54	52	51	49	48	46	45	44	42	41	40	39	37	36
68	61	59	59	56	51	53	51	50	48	47	45	44	43	41	40	39	38	37
69	61	60	58	57	55	53	52	50	40	47	46	45	44	42	11	40	39	38
70	61	60	58	57	56	54	52	51	40	48	47	45	44	43	42	40	39	38
71	62	60	59	58	56	55	53	52	50	49	47	46	45	44	42	41	40	39
72	62	61	60	58	57	55	54	52	51	40	48	17	45	41	43	42	41	39
73	63	61	60	59	57	56	51	53	51	50	49	47	46	45	41	43	41	40
71	63	62	60	59	58	56	55	53	52	50	4.9	48	47	45	44	43	42	41
			-															
75	61	62	61	59	58	57	55	51	52	51	50	48	47	46	45	41	43	42
76	61	63	61	60	58	57	56	54	53	51	50	49	48	46	45	41	43	42
77	65 65	63	62	60	59	57	56	53	53	52	51	49	4.8	47	46	45	44	43
78 79	66	61	62	61	59 60	58	56 57	55 56	51	52 53	51 52	50	49	48	47	45	41	43
		0.5	"	01	00	58	07	90	54	93	02	50	49	48	47	46	45	373
								_						i —	<u> </u>			
80	66	65	63	62	60	59	57	56	55	53	52	51	50	49	47	46	45	44
81 82	66	65 65	63	62	61	59	58	57	55	54	53 53	51	50	49	48	47	46	45
83	67	66	64	62	61	60	58 59	57 57	56 56	54 55	54	52 52	51 51	50 50	48	47	48	46
84	67	66	64	63	62	60	59	58	56	55	54	53	52	51	49	48	47	46
85	68	66	65	63	62	61	59	58	57	55	54	53	52	61	50	40	48	47
86	68	67	65	61	63	61	60	59	57	56	55	54	52	61	50	49	48	47
87	68	67	63	64	63	61	60	59	58	-56	55	54	53	52	51	50	40	48
88	69	67	66	64	63	62	60	59	58	57	56	54	53	52	51	50	49	48
89	69	-68	66	65	63	62	61	60	58	57	56	55	54	53	52	50	49-	4/8

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches—(continued).

Wet						V.	LUBS	0P t-6	'IN D	EGRE: S	, FAHI	RENHE	T.				•	
bulb t'.	18	18.2	19	19.5	20	20.2	21	21.2	22	22.2	23	23.2	24	24.5	25	25.5	26	26.2
60	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	15	14	13
61	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	16	15	14
62	31	30	29	28	26	26	25	24	23	22	21	20	19	18	17	17	16	15
63	32	31	30	28	27	26	26	25	23	23	22	21	20	19	18	18	17	16
64	33	32	80	29	28	27	26	25	24	23	23	22	21	20	19	18	18	17
65	33	32	31	30	29	28	27	26	25	21	23	23	22	21	20	19	19	18
66	34	33	32	31	30	29	28	27	26	25	24	23	23	22	21	20	19	19
67	35	34	33	32	31	30	29	28	27	26	25	24	23	23	23	21	20	20
68	36	35	31	33	32	31	30	29	28	27	26	25	24	23	23	22	21	20
69	36	35	34	33	32	31	30	29	28	27	27	26	25	24	23	23	22	21
												<u> </u>						
70	37	36	35	34	33	32	31	30	29	28	27	26	26	25	24	23	23	22
71	38	37	36	35	34	33	82	31	30	29	28	27	26	26	25	21	23	22
72	38	37	36	35	34	33	32	32	31	30	29	28	27	26	26	25	24	23
73	39	38	37	36	35	34	33	32	31	30	29	29	28	27	26	25	25	24
74	40	39	38	37	36	35	34	33	32	31	30	29	29	28	27	26	25	24
					-	-												
75	40	39	38	37	36	35	34	33	33	32	31	30	29	28	28	27	26	25
76	41	40	39	38	37	36	35	34	33	32	31	31	30	29	28	27	27	26
77	42	41	40	39	38	37	36 36	35	34	33	32	81	30	30	29	28	27	26
78 79	42 43	41	40	39	38	37	37	35 36	31 35	34	33	32	31	30	30	29	28	27
78	460	-	41	-20	39	90	"	30	30	03	99	34	32	"	30	20	20	26
																	·	
80	43	42	41	40	39	38	38	37	36	35	34	33	82	32	31	30	29	28
81	44	43	42	41	40	39	38	37	36	35	34	34	33	32	31	30	30	29
82 83	44	43	42	41	40	39	39	38	37 37	36	35 36	34 35	33	33	32 32	31	30	29 30
84	45	44	43	42	41	40	40	39	38	37	36	35	35	34	33	32	31	31
			~	_						-		~					Ĺ	
	,,		<u> </u>	7.0	1	<u> </u>	,,	600				<u></u>				60	00	91
85 86	46	45	44	43	42	41	40	39 40	38	38	37 37	36 36	35 36	34	33 34	33	32 33	31 82
87	47	46	45	44	43	42	41	40	39	39	38	37	36	35	34	34	33	82
88	47	46	45	44	43	42	42	41	40	39	38	37	36	36	35	34	34	33
89	4.7	46	46	45	44	43	42	41	40	40	39	38	37	36	35	35	84	83

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 29.7 inches—(continued).

Wet							VALUI	es or t	—t' in	DEGRI	ers, Fa	HRLNH	FIT.					
bulb #	27	27 5	28	28 5	29	29 5	30	305	31	31 5	32	32 5	33	33 5	34	815	35	35 5
55	7	6	6	5	5	4	3	3	2	2	1	1						
56	8	7	7	6	8	5	4	4	3	3	2	2	1	1		İ	İ	
57	9	8	8	7	7	6	5	5	4	4	3	3	2	2	1	1		
58	10	9	9	8	8	7	6	6	5	5	4	4	8	3	2	2	1	1
59	11	10	10	9	9	8	7	7	6	6	5	5	4	4	8	3	2	2
60	12	11	11	10	9	9	8	8	7	7	6	6	5	5	4	4	8	3
61	13	12	12	11	10	10	9	9	8	8	7	7	6	6	5	5	4	4
62	14	13	13	12	11	11	10	10	9	9	8	8	7	7	6	6	5	5
63	15	14	14	13	12	12	11	10	10	9	9	8	8	8	7	7	6	6
84	16	15	15	14	13	13	12	11	11	10	10	9	9	8	8	7	7	6
65	17	16	16	15	14	14	13	12	12	11	11	10	10	9	9	8	8	7
66	18	17	17	16	15	15	14	13	13	12	12	11	11	10	10	9	9	8
67	19	18	17	17	16	15	15	14	14	13	13	12	11	11	10	10	10	9
68	20	19	18	18	17	16	16	15	15	14	13	13	12	12	11	11	10	10
69	31	20	19	18	18	17	16	16	15	15	14	14	13	13	12	12	11	11
70	21	21	20	19	19	18	17	17	16	16	15	15	14	14	13	13	12	12
71	22	21	21	20	19	19	18	17	17	16	16	15	15	14	14	13	13	12
72	23	22	21	21	20	19	19	18	17	17	16	16	15	15	14	14	13	13
73	23	23	22	21	21	20	19	19	18	18	17	17	16	16	15	15	14	14
74	24	23	23	22	21	21	20	19	19	18	18	17	17	16	16	15	15	14
75	24	24	23	23	22	21	21	20	19	19	18	18	17	17	16	16	15	15
76	25	24	24	23	23	22	21	21	20	20	19	19	18	18	17	17	16	16
77	26	25	25	21	23	23	22	21	21	20	20	19	19	18	18	17	17	16
78	26	26	25	25	24	23	23	22	21	21	20	20	19	19	18	18	17	17
79	27	26	26	25	25	24	23	23	22	22	21	21	20	20	19	19	18	18
80	28	27	26	26	25	25	24	23	23	22	22	21	21	20	20	19	19	18
81	28	28	27	26	26	25	25	24	23	23	22	22	21	21	20	20	19	19
82	29	28	28	27	26	26	25	25	24	23	23	22	22	21	21	20	20	19
83	29	29	28	27	27	26	26	25	21	24	23	23	22	22	21	21	20	20
84	30	29	29	28	27	27	26	26	25	24	24	23	23	22	22	21	21	2)
85	80	80	29	28	28	27	27	26	25	25	24	24	23	23	22	22	21	21

TABLE V,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 297 inches—(concluded).

Wet					VALUI	s of t-	t' IN DE	grees, F	AHRRNH	LIT.				•
bulb t'.	36	36 5	37	87 5	38	38 5	39	39 5	40	40 5	41	41 5	42	42 5
55		{									[
56		Ì	1	1	1								Ì	
57		1	1											
58					l						l			
59	1	1												
60	2	2	1	1	1									
61	3	3	2	2	2	1	1							
62	4	4	3	8	3	2	2	1	1	1				
63	5	5	4	4	3	8	3	2	2	2	1	1	1	
64	6	5	5	5	4	4	4	8	3	3	2	2	2	1
65	7	6	6	6	5	5	5	4	4	8	3	3	2	2
66	8	7	. 7	6	6	6	5	5	5	4	4	4	8	3
67	9	8	8	7	7	7	6	6	5	5	5	4	4	4
68	9	9	9	8	8	7	7	6	6	6	5	5	5	4
69	10	10	9	9	8	8	8	7	7	6	6	В	5	5
70	11	11	10	10	9	9	8	8	* 8	7	7	6	6	6
71	12	11	11	10	10	10	9	9	8	8	7	7	7	6
72	12	12	11	11	11	10	10	9	9	9	8	8	8	7
73	13	13	12	12	11	11	10	10	10	9	9	8	8	8
74	14	13	13	12	12	12	11	11	10	10	9	9	9	8
75	14	14	13	13	13	12	12	11	11	11	10	10	10	9
76	15	15	14	14	13	13	12	12	12	11	11	10	10	10
77	16	15	15	14	14	13	13	13	12	12	11	11	11	10
78	16	16	15	15	15	14	14	13	13	12	12	12	11	11
79	17	17	16	16	15	15	14	14	13	13	13	12	12	12
80	18	17	17	16	16	15	15	14	14	14	13	13	13	12
81	18	18	17	17	16	16	15	15	15	14	14	13	13	13
82	19	18	18	17	17	16	16	16	15	15	14	14	14	18
83	19	19	18	18	17	17	17	16	16	15	15	14	14	14
84	20	19	19	18	18	17	17	17	16	16	15	15	15	14
85	20	20	19	19	18	18	18	17	17	16	16	15	15	18

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22° .

Wet						Values	or t-t	'IN DE	GRES,	Fahren	HEIT.				
bulb t'.	0	0.5	1	1.2	2	2.2	3	35	4	45	5	5.2	6	6.2	7
23	123	117	112	.106	101	.095	.090	'084	•079	073	-068	-062	.057	'051	.046
24	128	123	117	·112	.106	101	*095	1090	·084	.079	*073	-068	*062	.057	.021
25	131	128	.123	117	·112	106	.101	.095	1090	*085	.079	.074	.068	-063	*057
2 6	140	·134	•129	123	118	112	.107	·101	.096	.090	.085	.080	1074	-069	'063
27	146	141	·135	·130	'124	·119	·113	108	102	*097	*091	.086	.080	*075	990
	.150	.745	142	136	*191	-105	1190		-100	*100		*092	.087	*****	*0*0
28	·153	·147	148	130	·131 ·137	·125 ·132	·120 ·126	·114 ·121	'109	·103	*104	.092	.093	*081	*076
29 30	167	161	155	150	137	132	120	121	·115	117	·104	106	100	·088	*089
31	174	168	163	157	152	146	141	135	130	124	1119	.113	108	102	*097
32	182	175	169	163	157	151	145	139	133	127	121	·115	109	102	*097
02									100						007
33	189	183	177	171	165	·159	'152	•146	140	134	·128	·122	·116	·110	•104
34	196	190	184	178	172	·166	.160	154	148	142	·135	·129	·123	117	•111
35	204	198	192	.186	180	174	.168	162	155	149	·143	.137	.131	125	•119
36	213	206	200	194	188	182	176	170	164	157	151	145	139	.133	127
37	·221	·215	•209	203	197	.190	184	178	172	.166	·16 0	154	148	141	.135
	230	-221	-218	211	205	199	193	187	.,,,,,	·175	·168	162	•156	.750	.144
38	239	233	216	211	205	208	202	196	181	184	108	102	165	'150 '159	144
39	218	235	227	230	214	208	202	205	190	193	177	171	175	168	·153
40 41	258	252	246	239	233	227	221	215	209	203	196	190	184	178	102
42	268	262	256	250	243	237	231	225	219	213	206	200	194	188	182
43	278	272	266	260	.254	248	241	235	229	-223	217	211	204	198	192
44	*289	283	277	270	264	258	•252	246	240	234	227	221	215	209	203
45	.300	294	288	282	276	270	263	257	251	245	239	233	226	220	214
46	*312	306	299	293	287	281	275	268	262	256	250	244	·238	231	•225
4/7	*324	·817	-311	*305	-299	293	*286	250	274	*268	262	256	.249	243	-237
46	-'336	-330	-323	317	311	'305	*299	293	*286	*280	274	*268	.262	255	-249
49	349	343	-836	330	324	318	311	305	299	293	287	280	274	268	262
50	362	356	340	343	337	.331	-325	319	312	-806	.300	294	*288	282	-278
51	*875	-369	*363	*857	351	844	-338	-883	-326	-320	814	-307	301	295	289
52	*889	388	-377	-371	365	-358	.852	*846	*840	.334	-328	321	315	-309	.303

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°—(continued).

						V	ALUES	or t-	t in d	EGREE	s, Fah	RENHE	T.		*******		./Teess.	
Wet bulb #.	7.5	8	8.2	9	9.5	10	10.2	11	11'5	12	12.5	13	13.2	14	14.2	15	15 5	16
23	*040	*035	.030	024	'019	.013	.008	.002]		-					-
24	046	.040	-035	.029	.024	.018	.013	.008	-002							-		
25	052	-046	-041	.035	.030	.024	.019	.013	1008	.002						1		
26	.058	.052	-047	-041	-036	.030	-025	.019	.014	.008	.003		1			1		1
27	.064	-058	.053	-047	-042	-036	.031	.025	.020	014	.009	.003						
																	<u> </u>	<u> </u>
					.040													
28	·070	.065	.059	'054	*048	043	1037	032	.026	'021	.015	.010	1004					
29	*077	1071	·066	1060	055	·049	044	038	033	027	022	*016	.011	1005				
30 31	*084 *091	·078	1080	·087	1069	'064	.028	053	040	·034 ·042	029	023	·018	012	007	.009	.008	
81 82	091	.085	.079	073	.068	.080	.054	048	042	.036	.030	031	026	020	.008	.009	003	1
32	091	VOU	0,0	0,5	000	000	102	030	V-122	000	030	UAFE	010	012	000			
33	1098	*092	.086	1080	.074	.068	.062	.056	040	.043	.037	·031	·025	.019	.013	.007		1
84	105	.099	.098	.087	.080	'074	1068	*062	•056	.020	1044	.038	.032	.026	.019	.012	.007	
35	113	107	.100	*094	.088	'082	'076	.071	064	*058	'052	046	.039	.033	1027	.021	.012	.009
36	121	.112	109	.102	*096	.090	'084	.078	072	'066	.090	.053	047	.041	*035	.029	.023	.017
37	·129	123	117	'111	·105	.099	1092	.086	•080	.074	*068	.062	.056	.050	.043	.037	.031	.025
															_	<u> </u>		
3 8	138	132	126	.119	·113	107	.101	·095	.089	.083	.077	.070	·064	.058	.052	·046	.040	034
89	147	141	·135	128	122	116	.110	104	·098	.092	.085	079	.073	*067	.061	.055	.049	-043
40	156	150	144	·138	·132	125	119	.113	107	101	·095	.089	'082	.076	.070	'064	.058	*052
41	.166	160	·153	147	141	·135	129	123	117	.110	104	.098	.092	.086	7080	.074	.067	*061
42	176	170	163	.157	.151	145	.139	.133	127	120	114	.108	102	.096	.090	.083	-077	'071
43	186	.180	174	167	·161	155	149	143	137	131	124	118	·112	106	100	·094	•087	.081
44	196	190	184	.178	172	166	·160	158	147	141	135	129	123	117	110	104	-098	-092
45	208	202	196	189	183	177	171	165	159	152	146	140	134	128	122	115	109	103
46	-219	213	207	201	194	188	182	176	170	·164	.157	151	145	189	·138	127	120	114
427	231	-225	218	212	206	200	194	188	181	175	169	163	157	151	144	138	182	126
48	243	237	231	225	218	212	206	200	194	187	181	175	169	163	157	150	144	·138
49	256	250	243	237	231	225	219	212	206	200	194	188	181	175	169	·163	157	151
50	269	263	257	251	245	-239	232	226	-220	214	208	202	198	189	183	177	171	·165
51	283	277	271	264	258	-252	246	240	234	-227	221	215	209	203	197	190	184	178
52	297	291	284	278	272	266	260	254	247	241	235	229	223	217	210	204	198	192

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 277. inches and in the latitude of 22° —(continued).

Wet	124, 124,						Vatu	BS OF	t—t' 11	r dren	nes, 1	AHRED	HRIT.					
bulb t.'	16.2	17	175	18	18.2	19	19 5	20	20.2	21	21.5	22	22.2	23	23.5	24	24.5	25
23			1			1												
24																		
25 26	l	İ					1		1	-								
27																		
28								į										
29					l	1						l						
80	1				-													
81						İ												
82																		
99																		
33 34																		
85	-003																	
36	.011	.005																
37	·019	.013	·007															
									_							_		
88	*028	'021	.012	.009	.003													
89	.036	.030	1024	.018	.012	.006												
40 41	·046	·039	·033	·027	·021	015	.009	·003	.006									
42	'065	059	.053	.047	.040	.034	.028	.022	.016	.010	-004							
									_									
43	.075	-069	.063	.057	.051	.044	-038	.032	-026	.020	.014	.007	*001					
44	.086	-080	'073	067	.081	'055	.049	.013	.038	1030	024	.018	012	-008				
45	.097	.091	1085	.078	.072	•066	.060	.054	.048	.041	-035	*029	.023	'017	-011	1004		
46	108	102	990	-089	.083	.077	.071	-085	-059	.052	.046	1040	*034	-028	'022	1015	.009	.003
47	120	-113	107	.101	.095	.089	.083	.078	.070	.064	-058	-052	.045	-039	.033	1027	.021	*015
								 			-		 		-	-	_	-
48	182	126	119	113	107	.101	·095	.088	.083	.076	.070	'064	.068	.021	1045	.039	.085	*027
49	144	138	132	126	'120	.113	107	101	.095	1009	1082	076	*070	1084	.068	.051	-045	.039
50 51	159	·152	146	140	134	128	122	116	109	108	·097	'104	-098	079	1072	1086	080	*054
52	198	180	178	167	161	155	149	148	136	130	124	118	1119	108	.099	-003	1087	*067
<u> </u>	1		1	1				1		1		1	1	1		1 200	1 00/	1 201

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22° —(continued).

Wet						VALU	es or f	_t' 13f :	DEGREE	s, Fahr	enheit.	,		***************************************	
bulb #.	0	0.2	1	1.2	2	2.5	3	3.2	4	4.5	5	5.2	6	6.2	7
53	404	.398	·391	*385	379	.373	·367	•361	*354	·348	.342	-336	•330	323	*817
54	'419	413	· 4 06	·400	394	·388	*382	375	.369	.363	357	.351	'344	· 33 8	*832
55	434	428	•422	416	409	· 4 03	*397	.391	*385	·378	.372	'366	·36 0	'354	*348
56	450	444	438	432	425	419	418	407	401	'394	*388	*382	376	·370	*363
57	*467	· 46 0	454	*44.6	442	436	429	·423	· 4 17	411	· 4 05	*398	*392	*386	*380
58	*484	-477	·471	·465	·459	453	'446	•440	434	·428	· 42 2	415	·4·19	403	*397
59	•501	•495	489	483	·476	470	464	· 4 58	451	445	439	433	.427	420	414
60	·519	·513	•507	·501	.491	488	482	476	470	.463	457	· 4 51	445	439	432
61	· 53 8	-532	·525	·519	·513	•507	•501	494	· 4 88	492	476	470	463	457	451
62	·557	·551	545	· 53 8	•532	·526	•520	·513	•507	•501	· 4 95	·488	482	·476	*470
63	.577	•571	.265	*****					*527	•521	•515	.F00		*496	•490
64	.598	.591	*585	•558 •579	·552 ·573	·546	*540 *560	·533	•548	-541	.232	·508 ·529	·602	.517	*510
65	619	.613	.606	.600	*594	*588	·581	.575	·569	.263	•556	·550	*544	.538	·531
66	·641	*634	·628	622	-616	.609	.603	.597	.591	•584	·578	.572	*586	559	'553
67	-663	-657	.651	644	•638	•632	·626	•619	·613	•607	·601	·594	*588	.582	•576
														<u> </u>	
68	*686	•680	-674	•667	-661	·655	-649	-642	-636	-630	•621	-617	·611	-605	•599
69	.710	•704	· 69 8	·691	•685	·679	·673	-666	-660	·654	-647	*641	-635	·629	•622
70	.735	·7 2 9	.722	.716	.710	.703	-697	· 6 91	· 6 85	· 6 78	•672	·666	•660	·653	*847
71	.760	.754	.748	'741	•735	·729	.723	.716	.710	.701	-697	· 6 91	•685	-679	672
72.	*786	*780	·77 4	.767	761	·755	·749	·742	·736	·730	*724	.717	.711	*705	*698
78	. 813	*807	-801		, perco	, proc	,,,,,,,,,	, peno	•763	,prre	•#=0	*744	'738	.731	*725
76	*841	*835	*828	'794 '822	·788	*782 *810	•775 •803	•769 •797	763	·757	•750 •778	733	735	751	725
75	-870	.863	*857	·851	*844	.838	*832	*825	-819	*813	-807	-800	794	•788	781
76	*899	-893	1886	*880	874	1867	*861	*855	*849	*842	*836	.830	*823	*817	*811
77	•929	*923	-917	1910	904	*898	'891	*885	-879	*872	-866	-860	*853	*847	'841
													_		
78	-960	954	1948	941	.935	-929	1928	916	910	904	'897	.891	1885	*878	'872
79	1:098	1-010	1980	1000	1,000	.961	955	1948	942	936	-929	923	917	.010	904
90 81	1.026	1.019	1.013	1.007	1.000	1.028	1988	1.015	1.009	1.008	962	'956 '990	950	943	937
82	1.095	1.068	1.083	1.076	1.084	1.063	1.022	1.050	1'044	1.038	1.031	1.025	1.018	1.013	1.008
l				1 2010	1 - 505	1 .000	100/	1	1 - 0 - 0 - 0	1 2000	1 - 001	- 020	- 123	1	1

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22° —(continued).

Wet						V.	ALUES	or t—	n D	EGREE:	, Fah	BRNHE	T.					
bulb t'.	7'5	8	8.2	9	9.5	10	10.2	11	11.2	12	12.5	13	13.5	14	14.2	15	15.2	16
53	· 3 11	.305	299	-293	*286	280	274	26 8	262	•256	·249	-243	-237	·231	-225	219	212	206
54	·326	·320	.814	*307	*801	295	.289	283	277	·27 0	264	· 25 8	·252	246	240	233	227	•22
55	·841	*335	.329	*323	·317	.310	· 3 04	298	.292	·2 86	·2 80	•273	•267	.2 61	255	249	242	•23
58	-357	.351	345	.339	.332	•326	·320	·31 4	.308	302	295	289	283	277	271	284	258	*252
57	·374	*368	*861	*355	·3449	'343	*337	.380	·324	· 3 18	·312	*308	*299	·293	287	281	275	'266
58	391	.384	*378	*372	366	.360	353	*347	.341	*335	-329	*322	·316	· 3 10	*304	'298	291	28
59	408	402	*396	-389	*383	.377	.371	.362	*358	.352	346	*340	334	327	-321	315	309	*30
60	426	420	414	407	·401	.395	.3 H9	.383	376	.370	364	*358	*352	345	.339	.333	327	.32
61	445	438	.432	426	420	414	407	401	*395	.380	.382	376	370	364	.358	.351	345	.33
62	463	457	·451	· 44 5	·43 8	·432	·426	· 42 0	· 414	· 4 07	· 4 01	'395	.389	·382	· 37 6	'37 0	'364	•35
63	483	-477	-471	*465	-458	452	-446		·433	-427	421	415	'408	-402	-396	-390	.383	-37
64	.504	-498	492	485	479	473	.467	460	451	448	442	435	429	423	417	411	404	.39
65	-525	.519	.513	*506	.500	494	488	.481	475	469	.463	456	450	444	438	431	425	41
66	.547	.241	534	•528	-522	·516	.509	.203	497	491	484	478	472	466	459	453	447	-44
67	· 569	·563	·557	·551	·544	· 588	•532	·5 2 6	·519	•513	•507	•500	·494	·488	·482	475	469	•46
68	'592	.286	*580	'574	'567	· 5 61	*555	·5 1 9	.542	'536	•530	'524	.517	.211	•505	-498	-492	-48
69	-616	·610	1604	-597	.591	.585	.579	.572	-566	.260	.553	547	.541	.232	528	.522	.516	-51
70	641	1684	·628	-622	.616	.609	603	.597	.591	*584	578	.572	.262	.559	.553	.547	540	.53
71	-666	.860	653	.647	.641	.635	· 62 8	622	.616	·610	.603	-597	.591	.584	578	.572	*566	.55
72	'692	.688	·680	·673	·667	· 661	·654	648	642	·636	-629	-623	·617	610	1604	· 598	*592	.28
73	-719	.713	*706	*700	-694	-687	-681	-875	-669	-662	-656	*650	-643	-637	·631	·625	.010	-61
74	717	740	784	1728	.721	715	709	.703	1696	1690	'684	677	671	*665	658	652	·618	164
75	775	769	762	756	.750	744	737	731	725	718	712	.706	700	.683	1687	681	1674	-86
76	1804	798	792	785	779	773	767	760	.754	748	741	735	700	722	716	710	703	-89
77	.835	-828	-822	.816	-809	.808	.797	·790	784	778	771	765	759	752	746	740	784	772
78	*866	-659	-853	-847	-840	*834	-828	-821	-815	-809	-802	*796	-790	783	-777	-771	765	-71
79	1898	'891	*885	879	-872	.868	·860	.853	-847	841	834	*828	-822	·816	-809	-803	700	-78
80	981	924	918	912	905	.899	.893	.886	.880	874	1867	.861	1855	*848	842	1836	-829	-82
81	965	958	962	946	.939	.833	927	920	914	908	901	*895	.888	1882	1876	1889	1963	-86
82	.888	.883	987	.880	974	.968	.961	955	949	942	936	980	923	917	911	904	.898	-84

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry " and wet bulb " thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°—(continued).

Wet		<u> </u>				7	ALUES	0¥ t-	f in d	EGREE	s, Fah	RBNHB	IT.					
bulb #.	16.2	17	17:5	18	18.5	19	19'5	20	20.2	21	21.2	22	22.5	23	23.2	24	24:5	25
58	-200	194	188	182	.175	169	·168	157	·151	144	138	132	·126	120	·114	107	101	*095
54	-215	209	202	196	.190	184	178	.172	165	.159	·153	147	141	184	·128	122	116	110
55	230	224	218	212	205	199	193	187	.181	174	·168	162	·156	·150	143	-137	181	125
56	246	240	233	227	•221	*215	209	202	.198	190	184	178	·172	.165	.159	·153	147	141
57	-262	256	250	*244	· 2 37	·231	·225	·219	.213	206	200	194	·188	182	.175	169	163	·157
	279	273	-267	'26 0	*254	248	*242	-236	•229	-223	217	·211	-205	198	192	196	180	174
58 59	279	290	284	278	271	246	259	253	247	240	234	228	-222	216	209	203	197	174
60	314	.308	302	296	289	283	277	271	265	258	252	246	240	233	227	-221	215	209
61	-333	326	-320	*314	.308	*302	295	289	283	.277	.271	264	258	.252	246	-239	233	227
62	.351	*345	-339	.332	-326	320	*314	307	.301	*295	289	.282	-276	270	*264	-257	.251	245
63	·371 [°]	-365	.358	.352	*346	*340	-333	.327	-321	.315	.308	.302	· 29 6	· 29 0	•283	-277	-271	'26 5
64	.392	*386	.379	.373	-367	-361	.354	348	342	.336	.329	.323	·817	*311	304	-298	-292	286
65	413	407	-400	*394	*388	382	.375	.869	-363	*357	· 35 0	344	.338	.332	·325	*819	.313	307
66	·434	·428	.422	416	*409	·403	*397	-391	'384	378	.372	.366	.359	· 3 53	·8 4 7	.941	334	*328
67	457	450	-444	· 43 8	-432	425	419	413	407	·400	'394	'388	*382	375	.369	-363	-357	.350
					ļ				<u> </u>			<u> </u>						
68	*480	-4/73	467	-461	455	448	-442	-436	•430	-423	417	411	·405	.398	-392	-386	*380	.373
69	.503	-497	491	*485	-478	.472	•466	459	453	-447	441	.434	428	•422	416	-409	403	397
70	-528	.522	.515	-509	-503	496	·490	484	478	.471	465	-459	453	446	440	*434	427	-421
71	.553	-547	·540	.534	-528	•522	.515	-509	-503	-497	-400	484	4/78	471	465	459	·453	446
72	·579	.573	-566	-560	*554	*548	-541	•535	-529	-522	·516	· 510	.504	497	491	-485	·478	-472
											<u> </u>					<u> </u>		
78	.608	•599	.593	*587	*581	.574	.268	.262	-555	.549	-548	.536	.530	*524	.218	.211	505	'499
74	.633	'627	*621	614	.608	602	*595	.589	.583	.577	*570	·564 ·592	*558	.551	*545	*539	533	.528
75	1662	*655	1649	*643	*636	.630	624	.618	·611 ·640	·634	·599 ·628	621	·586 ·615	·609	·573	·567 ·596	·561	·555
76 77	·691 ·721	·685	·678	·672	-666	·659	·653	647	-670	664	-658	651	645	639	-633	*626	620	614
	721	718	708	702	090	089	063						090		000	020		019
78	•752	*746	.739	733	-727	·720	714	.708	.701	.695	-689	-682	-676	-670	-663	-657	*651	·644
79	784	.778	.771	.765	-759	752	746	740	733	-727	.721	714	708	.702	-695	-689	-683	676
80	1817	-810	1804	·796	791	.785	.779	-772	766	.760	-753	.747	741	784	-728	723	.715	709
81	'850	-844	-838	*831	·825	819	-812	-806	-800	-793	787	.781	774	•768	762	.755	749	743
82	-985	·879	-878	-866	-860	*854	-847	*841	-885	1828	-822	·816	.808	-803	796	790	784	777

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°—(continued).

Wet							Valu	ES OF	t—t' 11	T DEGE	res, F	AHREN	HBIT.					
buib &.	25.2	26	26.5	27	27.5	28	28.5	29	29.5	30 '	30.2	31	31.2	32	32.5	33	33.2	84
48	020	*014	.008	.003		1												
40	.033	*027	.031	'014	.008	.002												
50	.048	.042	·035	1029	.023	.017	.011	.002					1					
51	.061	.055	*040	.043	.036	.030	.024	.018	'012	.008		ļ.	-				1	
52	·075	.089	*062	·056	*050	*044	.038	.032	·025	.019	.013	.007						
53	.088	.083	.077	.070	·064	.058	052	.046	.010	.033	-027	·021	.012	.009	.003			
54	104	.097	.091	'085	.079	·073	.067	.060	'054	.048	.042	.036	.029	-023	.017	.011	.002	
55	·119	.113	106	·100	·094	·088	.083	-075	.069	.063	·057	'051	*015	-038	.032	.026	-020	.014
56	134	128	·122	.116	·110	·103	.097	.091	·085	.079	*072	.066	.060	054	.048	.042	.035	.029
57	·151	144	·138	·132	·126	·120	.113	.107	'101	*095	.089	.083	.076	*070	·064	.058	.052	·0 4 5
58	167	·161	155	·149	142	136	130	·124	118	111	•105	.099	.093	.087	.080	.074	.068	.062
59	185	178	172	.166	160	154	147	141	135	129	122	·116	.110	104	.098	.091	.085	.079
60	202	.196	190	184	178	171	·165	·159	153	146	140	·134	128	.122	.112	.109	.103	1097
61	221	215	208	.202	·196	.190	.183	177	171	.162	.159	152	146	140	·134	·127	121	.112
62	239	·232	•226	'220	214	207	201	·195	189	182	176	170	164	.157	.151	145	·139	·132
63	258	252	246	210	.233	227	221	214	208	202	196	.190	'183	177	171	165	158	152
64	280	.273	.267	*261	*255	248	·242	·236	230	-223	.217	·211	205	198	·192	.186	180	.174
65	.300	291	*288	•282	.275	269	.263	257	·2 50	·244	238	.533	.225	.219	.513	207	*200	194
66	*322	316	·3 09	.303	'297	-291	.284	278	.272	•266	259	253	217	*241	235	.228	-222	216
67	344	.338	*332	·325	319	·313	.307	.300	294	*288	·282	.275	·269	263	257	· 25 0	244	238
68	367	.361	*354	-318	342	•336	.329	·323	317	·311	304	298	.292	286	279	273	267	.261
69	391	384	378	.372	·366	•359	.353	347	340	·334	*328	*322	.312	.309	.303	-297	-290	*284
70	415	·409	402	.39 ₃	.390	.381	.377	.371	·365	358	•352	·346	340	.333	-327	·321	.315	.308
71	440	·434	-427	· 42 1	415	409	402	.396	•390	·384	.377	·371	*365	*358	·352	*346	-340	·333
72	·466	460	463	147	441	434	428	422	· 4 16	-409	.403	*397	.380	*384	378	*372	*365	*359
73	492	·486	·480	474	467	461	455	448	412	•436	· 43 0	· 42 3	· 4 17	411	404	.398	.392	.386
74	·520	·514	-507	·501	· 49 5	·488	482	476	470	· 4 63	457	· 4 51	444	· 43 8	•432	· 42 6	· 4 19	413
75	'548	542	-536	·529	.233	-517	·510	·504	498	· 49 1	485	479	· 4 73	·466	· 46 0	454	·447	'44 1
76	.577	·571	•565	· 55 8	`552	-546	·539	·533	-527	·521	·514	.508	.502	1495	·489	·483	·476	470
77	·607	· 601	-595	·588	·582	•576	·569	·563	.224	· 55 0	'544	· 53 8	·532	·525	·519	.213	•506	·500
78	·638	·632	-626	.619	.613	-807	.600	.594	*588	·581	.575	•569	.562	.226	.550	543	•537	· 5 31
79	-670	-664	-657	·651	645	-638	632	· 62 6	-619	613	-607	.600	.594	1588	-581	·575	-569	-563
80	703	-696	·690	·684	.677	-671	·665	·658	-652	646	-639	·633	-627	-620	614	·608	· 6 01	-595
81	736	730	724	717	711	705	.698	692	-686	-679	·673	*667	.86 0	-854	·648	·6 4 1	-635	·629
62	771	765	758	752	746	789	783	727	720	714	708	.701	*895	-689	-682	-876	-670	-668

TABLE VI,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 27.7 inches and in the latitude of 22°—(concluded).

						Vali	ZS OF	t-t' 1	n dig	eres, I	FARRE	HBIT.					
Wet bulb #.	34:5	35	35.5	36	36'5	37	37.5	38,	38.2	39	39.5	40	40.2	41`	41.5	42	42.5
53																-	
54			1														
55	.007		1														
56	.023	.017	.011	·004													
57	.039	.038	·027	·021	·014	•008	1002										
58	056	.049	-043	.037	.031	.025	*018	·012	.006								
59	.073	.067	.060	.054	048	.042	.036	029	.028	-017	.011	•005					
60	.091	1084	-078	072	.066	.060	.053	047	.041	.035	.028	.022	.016	*010	*004		
61	109	103	.096	.090	.084	.078	.072	'065	.059	.053	.047	*040	.084	.028	022	.016	.009
62	·126	120	·114	107	101	•095	.089	·082	.076	.070	.064	.057	.051	045	.039	.032	*026
63	146	·140	133	127	121	'115	108	102	096	.090	.083	.077	•071	*065	1058	.052	.046
64	167	161	·155	·149 ·169	·142	136	.130	124	·117	1111	·105	·099	·092	.086	·101	074	.068
65	·188 ·210	182	176	109	185	·157	·151	.166	'160	·132	120	119	135	·107	101	·094	·088
66 67	210	·203	219	213	207	200	194	·188	182	175	169	163	157	128	144	110	110
~ ~~~	202					200	104										102
68	*254	248	-242	236	-229	•223	-217	211	204	198	-192	·185	179	*173	167	.160	·154
69	.278	.272	*265	.259	253	.246	240	234	.228	.221	215	209	203	196	.190	184	178
70	.302	.296	*290	283	.277	.271	264	•258	•252	246	.239	233	.227	-221	214	'208	*202
71	·327	.321	'814	.308	302	•296	-289	-283	*277	271	264	*258	.252	*245	.539	.533	•227
72	.353	*346	-340	*334	*328	'321	*315	*309	.303	*296	*290	*284	-277	271	*265	*259	*252
73	*379	373	-367	-360	*354	.348	*842	-385	-329	-323	*816	*310	-304	297	291	285	.279
74	•407	-400	394	.388	.381	.375	.369	-363	-356	-359	*844	-337	-331	-325	.318	-312	.306
75	485	428	-422	416	419	403	-397	*391	*384	-378	372	.365	-369	.353	*347	-840	*884
76	464	-457	451	· 44 5	.439	432	426	·420	· 4 18	407	401	*394	-388	*382	.375	:369	.363
77	*404	·487	-481	· 4 75	·468	462	· 4 58	-449	-443	-437	-430	-424	· 4 18	412	-405	.399	.393
			'512	-505	*409	-403	,,,,,,	*460	-474	-468	461	-455	-449	-443	-436	•430	423
78	-524	.218	544	-537	581	525	*486 *518	-512	*506	409	461	487	480	474	468	461	455
79	.226	·550	-576	-570	.268	557	-518	-544	-538	582	525	519	518	-506	-500	-494	487
90 61	-682	616	.610	-603	-597	591	-584	1578	-572	.585	-559	.228	-546	-540	-534	-527	-521
81 82	-667	-651	-644	638	-632	625	-619	-613	.606	.600	-593	*587	.281	-574	-568	-562	-555
	90/	351									1						

TABLE VII,

For finding the Relative Humidity of the Air, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 27.7 inches.

Wet					V A1	LURS OR	t-t' 1	n Degr	res, Fa	HRBNEJ	IT.				
bulb t'.	0	0.2	1	1.2	2	2.2	8	3.2	4	4.5	5	5-5	6	6-5	7
23	100	94	88	81	75	69	64	59	54	49	44	40	36	32	2
24	100	94	88	82	76	70	65	60	55	50	46	41	37	33	2
25	100	94	88	82	77	71	66	61	57	52	47	43	89	35	3
26	100	94	88	83	77	72	67	62	58	53	49	45	41	37	8
27	100	94	88	83	78	73	68	63	59	55	50	46	42	89	8
28	100	94	89	83	78	74	69	64	60	56	52	48	44	41	3
29	100	94	89	84	79	74	70	65	61	57	58	49	46	42	31
30	100	95	89	84	79	75	71	66	62	58	54	51	47	44	46
81	100	95	90	85	80	76	72	67	63	59	55	52	49	45	4
82	100	95	90	85	80	76	71	67	63	59	55	51	47	44	4
	100	95	90	85	80	76	72	68		60	56	52	49		
83	100	95	90	86	81	77	72	68	64	60	57	53	50	45	4
84	100	95	90	86	81	77	73	69	65	61	58	54	51	46	4
85 94	100	95	91	86	82	78	74	70	66	62	59	55	52	47 48	4
86 27	100	95	91	87	82	78	74	71	67	63	69	56	53	50	42
88	100	96	91	87	83	79	75	72	68	64	60	57	54	51	46
89	100	96	91	87	83	79	75	72	68	65	61	58	55	52	44
40	100	96	92	88	84	80	76	73	69	66	62	59	56	58	50
41	100	96	92	88	84	80	77	78	70	66	63	60	57	54	51
42	100	96	92	88	84	81	77	74	70	67	64	61	58	55	52
43	100	96	92	68	85	81	77	74	71	68	65	62	59	56	58
44	109	96	92	89	85	81	78	75	71	68	65	62	60	57	54
45	100	96	92	89	85	82	78	75	72	69	66	63	60	58	50
46	100	96	92	89	85	82	79	76	73	70	67	64	61	58	56
47	100	96	98	89	86	82	79	76	73	70	67	65	62	59	57
40	100	96	98	89	86	83	80	77	74	71	68	65	68	80	
46	100	96	93	90	86	83 83	90	77	74	71	68	66	63	61	58
49	1 1	97	93	90	87	83	80	77	75	72	69	66	64	61 61	59
50	100	97	93	90	87	83 84	81	78	75	72	70	67	64	93 91	90
61	100		1							- 1			-		
52	100	97	98	90	87	84	81	78	76	73	70	68	65	63	60

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 277 inches—(continued).

Wet							VALU	ES OF	<i>t—t'</i> in	DEGR	ees, F	ARREN	HEIT					
bulb #	7 5	8	85	9	95	10	10 5	11	115	12	12 5	13	13 5	14	14 5	15	1 5	1(
23	24	20	16	13	10	7	4	1										
24	26	22	19	15	12	9	7	4	1									
25	28	24	21	18	15	12	9	6	8	1								
26	30	27	23	20	17	14	11	9	6	8	1							l
27	32	28	25	22	19	16	14	11	8	6	3	1						
									_									
28	84	31	27	24	21	19	16	18	11	8	6	4	1					
29	85	32	29	26	23	21	18	15	18	11	8	6	4	2	li			
80	37	34	31	28	25	23	20	17	15	18	11	8	6	4	2			
81	39	36	33	30	27	25	22	20	17	15	13	11	9	7	5	3	1	
82	37	34	81	28	25	22	19	17	14	12	10	8	6	4				
33	38	35	32	29	26	24	21	19	16	14	12	10	8	6	4	2		
84	40	37	34	81	29	26	24	21	18	16	14	12	10	8	8	4	2	
35	41	38	35	33	80	27	25	23	20	18	16	14	12	10	8	6	4	2
86	43	40	87	34	32	29	27	24	22	20	18	16	14	12	10	8	6	4
87	44	42	39	36	83	81	28	26	24	22	20	18	16	13	12	10	8	6
												_						
38	45	42	40	37	35	32	30	28	25	23	21	19	17	15	13	11	10	8
39	46	44	41	39	36	83	31	29	27	24	23	21	19	17	15	13	11	10
40	47	45	42	40	37	85	33	31	28	26	24	22	20	18	17	15	18	11
41	48	46	44	41	39	36	34	32	30	28	26	24	22	20	18	16	15	13
42	49	47	45	42	40	37	35	88	81	29	27	25	23	21	19	18	16	15
43	50	48	46	43	41	38	36	84	32	30	28	26	24	23	21	19	18	16
44	51	49	47	44	42	40	38	35	33	31	30	28	26	24	22	21	19	18
45	52	50	48	45	43	41	39	87	35	33	31	29	27	25	24	22	21	19
46	58	51	49	46	44	42	40	38	36	84	32	80	28	27	25	24	22	21
47	54	52	50	47	45	43	41	89	37	35	33	31	30	28	27	25	24	22
48	55	53	51	48	46	44	42	40	38	36	84	33	31	29	29	26	25	23
49	56	54	51	40	47	45	43	41	39	37	35	84	82	30	29	27	26	24
50	57	54	52	50	48	46	44	42	40	38	36	85	83	82	80	29	27	26
51	57	55	53	51	49	47	45	48	41	89	37	36	34	33	81	80	28	27
52	58	56	54	51	50	48	46	44	42	40	38	87	35	84	82	31	29	28

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 27.7 inches—(continued).

Wet							Vai	LUES O	₽ <i>t—t'</i>	in De	GRBES,	FARE	ENHBI	'.				
buto e.	16.2	17	17:5	18	18.5	19	19.5	20	20 5	21	21.2	22	22 5	23	23.2	24	24.5	25
23																		
24																		
25												}					1	
26 27																		
21																		
28																		
29																		
80																		
81																		
32																		
33 94		•																
34 35	1																	
36	8	1										1						
37	5	3	1															
38	7	5	3	2														
89	8	7	5	4	2	1												
40	10	9	7	6	4	3	2	1										
41	12	10	9	7	6	5	8	2	1									
42	13	12	10	9	8	6	5	4	8	2	1							
43	15	13	12	11	9	8	7	6	4	3	2	1						
44	16	15	13	12	11	9	8	7	6	5	4	3	2	1				
45	18	16	15	14	12	11	10	9	8	7	5	4	8	2	1	1		
46	19	18	16	15	14	12	11	10	9	8	7	6	5	4	3	2	1	
47	21	19	18	16	15	14	13	11	10	9	8	7	6	5	4	4	8	2
48	22	20	19	18	17	15	14	13	12	11	10	9	8	7	6	5	4	8
49	23	22	20	19	18	17	15	14	13	12	11	10	9	8	7	6	5	5
50	24	23	22	20	19	18	17	16	14	13	12	11	10	9	8	7	7	6
51	26	24	28	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7
52	27	25	24	23	21	20	19	18	17	16	15	14	13	12	11	10	9	9

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches—(continued).

Wed built #					Va	LUES OI	<i>t—t'</i> 1	T Dege	ers, F	AHRENH	BIT.				
Wet bulb #.	0	0.2	1	1.2	2	2.2	3	3.2	4	4.2	5	5.2	6	6.2	7
53	100	97	93	90	87	84	81	79	76	73	71	68	66	64	61
54	100	97	94	91	88	85	82	79	76	74	71	69	66	64	62
55	100	97	94	91	88	85	82	79	77	74	72	69	67	65	62
56	100	97	94	91	88	85	82	80	77	75	72	70	67	65	63
57	100	97	94	91	88	85	83	80	78	75	78	70	68	66	64
58	100	97	94	91	88	86	83	80	78	76	73	71	68	66	64
59	100	97	-94	91	89	86	83	81	78	76	73	71	. 69	67	65
60	100	97	94	91	89	86	83	81	79	76	74	72	69	67	65
61	100	97	94	92	89	86	84	81	79	77	71	72	70	68	66
62	100	97	94	92	89	86	84	81	79	77	75	73	71	68	66
63	100	97	94	92	89		84	82	79	77	75	73	71	69	
64 64	100	97	95	92	89	87 87	84	82	80	78	75	73	71	69	67 67
65	100	97	95	92	90	87	85	82	80	78	76	74	71	69	68
66	100	97	95	92	90	87	85	83	80	78	76.	74	71	70	68
67	100	97	95	92	90	87	85	83	81	79	76	74	72	70	68
40	100	97	95	92				83.	81	79	77	75	73	71	
68 69	100	97	95	93	90 90	88 88	85 86	83	81	79	77	75	73	71	69 69
70	100	97	95	93	90	88	86	84	0.1		"	75	73	71	70
71	100	97	95	93	90	88	86	84	82	80	78	76	74	72	70
72	100	98	95	93	90	88	86	84	82	80	78	76	74	72	70
												<u> </u>	<u> </u>		
73	100	98	95	93	91	88	86	84	82	80	78	76	74	72	71
74	100	98	95	93	91	89	86	84	82	80	78	76	75	73	71
75	100	98	95	93	91	89	87	85	83	81	79	77	75	73	71
76	110	98	95	93	91	89	87	85	83	81	79	77	75	73	72
77	100	98	95	93	91	89	87	85	83	81	79	77	75	74	72
78	100	98	95	93	91	89 ⁻	87	85	83	81	79	78	76	74	72
79	100	98	96	93	91	89	87	85	83	81	80	78	76	74	73
80	100	98	96	94	91	89	87	85	83	82	80	78	76	75	73
81	100	98	96	94	91	89	87	86	84	82	80	78	77	75	73
82	100	98	96	94	92	90	88	86	84	82	80	79	77	75	74

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 27.7 inches—(continued).

Dulb	Wet						V	LUES	or t—t	, in D	EGREE	s, Fah	RENHE	IT,					
64 69 67 65 63 61 40 47 48 44 42 40 39 37 38 34 38 32 30 65 60 58 66 54 52 60 48 46 45 43 41 40 38 37 35 34 32 31 66 61 59 67 65 63 61 40 47 44 44 42 41 39 38 36 35 33 32 83 63 60 66 64 52 61 40 47 45 44 42 41 39 38 37 35 34 33 83 63 63 61 60 64 52 61 46 45 44 42 41 39 38 37 35 34 32 40 40 48		7.5	8	8.2	9	9.5	10	10 5	11	11.2	12	12 5	13	13.2	14	14.2	15	15.2	16
66 60 66 63 62 60 36 46 45 43 41 40 38 37 55 34 33 31 86 61 89 67 55 63 61 49 47 46 44 42 41 39 38 36 35 33 32 67 61 69 67 55 64 52 61 49 47 45 44 42 41 39 38 36 36 34 33 69 63 61 60 63 64 52 50 61 60 46 45 44 42 41 39 38 37 35 34 60 63 61 69 67 55 54 52 50 44 45 44 43 41 39 38 36 61 62 63	53	59	57	55	52	50	49	47	45	43	41	39	38	36	35	33	32	30	29
68 61 60 67 55 63 61 40 47 46 44 42 41 39 38 36 35 33 32 87 61 60 57 55 54 52 50 48 45 43 41 40 38 37 36 34 33 88 63 61 50 57 55 53 51 60 48 44 42 41 39 38 37 36 35 60 63 61 59 67 65 64 53 61 40 47 45 44 43 41 39 38 37 36 35 61 64 62 60 68 64 53 61 40 44 44 43 42 41 40 39 38 36 61 62 60 58	54	59	57	55	53	51	40	1/7	46	44	42	40	39	37	36	34	33	32	3 0
87 61 69 67 656 64 62 61 69 69 65 64 63 61 60 68 67 65 64 63 61 60 68 64 62 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 68 64 62 61 69 68 68 64 62 61 69 68 66 64 63 61 69 68 66 64 63 61 69 68 68 68 68 68 68 68 68 68 68 68 68 68	55	60	58	56	54	52	50	18	46	45	43	41	40	38	37	35	34	32	31
88 62 60 66 65 63 61 60 67 65 63 61 60 68 64 62 61 69 69 67 65 63 61 60 68 66 64 62 60 68 61 69 69 67 65 68 61 60 68 61 62 60 68 61 62 60 68 61 62 60 68 61 62 60 68 61 62 60 68 61 62 61 69 67 65 63 61 60 68 61 62 60 68 61 62 60 68 61 62 60 68 61 62 60 68 61 62 61 62 60 68 61 62 60 68 62 62 61 69 68 68 64 62 61 69 68 68 64 62 61 69 68 67 65 63 61 60 68 67 65 63 61 60 68 61 62 60 68 61 62 60 68 61 62 60 68 61 62 60 68 61 62 60 68 61 62 60 68 61 62 60 68 61 62 60 68 61 62 60 68 61 62 60 69 60 62 60 69 60 69 67 68 60 69 60 62 60 69 60 69 67 68 60 60 60 60 60 60 60 60 60	56	61	59	57	5 5	53	51	49	4/7	46	44	42	41	39	38	36	35	33	32
69 63 61 60 67 55 63 51 50 48 46 45 43 42 40 39 37 36 35 60 60 63 61 59 67 55 54 52 50 49 47 45 44 43 41 39 33 37 36 61 64 62 60 58 56 54 53 51 49 48 46 45 44 42 40 39 38 36 61 64 62 60 58 56 55 53 52 50 48 47 45 44 42 41 40 39 38 36 62 63 61 60 58 54 52 50 49 47 45 44 43 41 40 39 38 38 36 32 61 59 <td>57</td> <td>61</td> <td>59</td> <td>57</td> <td>55</td> <td>54</td> <td>52</td> <td>50</td> <td>18</td> <td>46</td> <td>45</td> <td>43</td> <td>41</td> <td>40</td> <td>38</td> <td>37</td> <td>36</td> <td>84</td> <td>33</td>	57	61	59	57	55	54	52	50	18	46	45	43	41	40	38	37	36	84	33
69 63 61 60 67 55 63 51 50 48 46 45 43 42 40 39 37 36 35 60 60 63 61 59 67 55 54 52 50 49 47 45 44 43 41 39 33 37 36 61 64 62 60 58 56 54 53 51 49 48 46 45 44 42 40 39 38 36 61 64 62 60 58 56 55 53 52 50 48 47 45 44 42 41 40 39 38 36 62 63 61 60 58 54 52 50 49 47 45 44 43 41 40 39 38 38 36 32 61 59 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>}</td> <td></td> <td></td> <td>ļ</td> <td></td> <td> </td> <td></td> <td></td>							-					}			ļ				
69 63 61 50 67 85 63 51 50 48 46 45 43 42 40 39 37 38 35 60 63 61 59 67 55 54 52 50 49 47 45 44 43 41 39 38 37 38 61 64 62 60 58 56 55 53 52 50 48 47 45 44 42 41 40 39 38 37 63 65 63 61 60 58 56 55 53 52 50 48 46 44 43 42 41 40 39 38 64 65 63 61 60 58 56 55 53 52 50 48 47 44 43 41 40 39 48 41	58	62	60	58	56	54	52	51	40	47	45	44	42	41	39	38	37	35	34
61 64 62 60 68 66 64 62 61 69 68 66 64 62 61 69 68 66 64 62 61 60 68 67 70 68 67 65 63 61 60 68 64 62 62 60 68 64 63 61 60 68 62 62 60 69 67 70 68 68 64 62 61 62 61 60 68 64 62 61 60 68 62 62 61 60 68 62 62 61 60 68 62 62 61 60 68 62 62 61 60 68 62 62 61 60 68 62 62 61 60 68 62 62 61 60 68 62 62 61 60 68 62 62 61 60 68 62 62 61 60 68 62 61 62 61 61 61 61 61 61 61 61 61 61 61 61 61				59	57	55	53	51	50	448	46	15	43	42	40	39	37	ĺ	l
62 64 62 60 58 56 55 53 52 50 48 47 46 44 43 42 41 40 38 37 63 65 63 61 60 58 56 54 52 51 50 48 47 46 44 43 42 41 39 38 64 66 64 62 61 59 57 56 53 52 51 49 48 47 46 44 43 41 40 39 66 66 66 64 62 61 59 68 56 55 53 52 51 49 48 47 46 44 43 41 40 43 41 40 67 67 65 63 61 60 58 56 56 55 53 52 51 49 48 47 46 44 43 41 40 43 41 40 67 67 65 63 61 59 58 56 55 53 52 51 49 48 47 46 44 43 41 40 43 41 40 67 67 65 63 61 59 58 56 55 53 52 51 49 48 47 46 44 43 41 40 41	60	63	61	59	57	55	54	52	50	149	47	45	44	43	41	39	38	37	36
63 65 63 61 60 58 56 54 52 50 40 48 46 44 43 42 41 39 38 66 66 64 62 61 59 57 56 54 52 51 50 40 40 48 47 45 44 43 41 40 39 68 69 67 65 63 61 60 58 56 56 57 56 55 54 52 51 50 40 40 47 46 45 44 43 41 40 39 68 70 68 66 64 62 61 60 58 57 56 55 54 53 52 50 40 40 47 46 45 44 43 41 40 43 41 40 67 67 67 67 65 63 62 60 59 57 55 55 53 52 51 40 40 47 46 45 44 43 41 40 40 67 67 67 65 63 62 60 59 57 56 54 53 51 50 40 40 47 46 45 44 43 41 40 40 67 67 67 65 63 62 60 59 57 56 54 53 51 50 40 40 47 46 45 44 43 42 41 43 42 41 41 40 40 40 40 40 40 40 40 40 40 40 40 40	61	64	62	60	58	56	54	53	51	40	48	46	45	43	42	40	39	38	36
63 65 63 61 60 58 56 54 52 50 40 48 46 44 43 42 41 39 38 65 66 65 68 61 60 58 56 54 52 51 50 48 47 45 44 43 41 40 39 66 66 66 64 62 61 59 57 55 53 52 50 40 47 46 45 44 43 41 40 67 67 67 65 63 61 60 58 56 56 55 54 52 51 40 48 47 45 44 43 41 40 39 68 66 64 62 61 59 57 55 53 52 50 40 47 46 45 44 43 41 40 40 67 67 67 65 63 61 59 58 56 55 54 52 51 40 48 47 45 44 43 41 40 40 67 67 67 65 63 61 59 58 56 55 54 52 51 40 48 47 45 44 43 41 40 40 67 67 67 65 63 62 60 59 57 56 54 52 51 40 40 47 46 45 44 43 42 41 68 45 44 42 41 68 45 45 44 42 41 68 45 45 44 42 41 68 45 45 44 42 41 68 45 45 45 45 45 45 45 45 45 45 45 45 45	62	64	62	60	5 8	56	55	53	52	50	48	47	45	44	42	41	40	38	37
64 65 63 61 60 58 50 54 52 51 50 48 47 46 44 43 41 40 39 65 66 64 62 61 59 57 55 53 52 50 49 47 46 43 41 40 39 66 66 64 62 61 59 57 55 53 52 50 49 47 46 44 43 41 40 67 67 65 63 61 59 58 56 55 53 52 50 49 47 46 45 43 42 41 69 68 66 64 62 60 59 57 56 54 53 51 50 49 47 46 44 43 42 40 48 47 46 44					-			 					_						
64 65 63 61 60 58 50 54 52 51 50 48 47 46 44 43 41 40 39 65 66 64 62 61 59 57 55 53 52 50 49 47 46 43 41 40 39 66 66 64 62 61 59 57 55 53 52 50 49 47 46 44 43 41 40 67 67 65 63 61 59 58 56 55 53 52 50 49 47 46 45 43 42 41 69 68 66 64 62 60 59 57 56 54 53 51 50 49 47 46 44 43 42 40 48 47 46 44	63	85	63	61	68	67	56	54	52	50	40	48	46	44	43	42	41	39	38
86 66 64 62 61 59 57 55 53 52 51 10 48 47 45 44 43 41 40 67 67 65 63 61 59 58 56 55 53 52 50 49 47 46 45 43 42 41 08 07 65 03 62 60 58 56 55 54 52 51 49 48 47 45 44 43 42 41 09 68 06 64 62 60 59 57 56 54 53 51 50 49 47 46 44 43 42 70 68 66 63 61 60 58 57 55 54 52 51 50 49 47 46 44 43 44 44 44			1	l	1		l	1					i	1	1			1	
67 67 65 63 61 59 58 56 55 53 52 50 40 47 46 45 43 42 41 08 07 65 63 02 60 58 56 55 54 52 51 40 48 47 45 44 43 42 09 68 66 64 63 61 59 58 56 55 53 52 50 40 48 47 46 45 44 43 70 68 66 64 63 61 59 58 56 55 53 52 50 40 48 47 46 45 44 42 71 68 68 65 63 61 60 58 57 55 54 52 51 50 40 48 47 46 45 44 42 72 09 67 65 63 62 60 59 57 56 54 53 52 50 40 48 47 46 45 44 42 73 69 67 66 64 62 61 69 59 57 56 54 53 52 50 40 48 47 46 45 44 42 73 69 68 66 64 63 61 60 58 57 55 54 53 52 50 40 48 47 46 45 44 42 74 69 68 68 64 63 61 60 58 57 56 54 53 52 50 40 48 47 46 45 46 45 46 45 46 45 46 45 46 45 46 45 46 45 46 46 46 46 46 46 46 46 46 46 46 46 46	i i		64	62	60	58	57	55	53	52	50	49	47	46	45	44	42	41	39
08	66	66	64	62	61	59	57	55	53	52	51	10	48	47	45	44	43	41	40
69 68 66 61 62 60 59 57 56 54 53 51 50 49 47 46 45 44 42 70 68 68 64 63 61 59 58 56 55 53 52 50 49 48 47 46 45 44 43 71 68 66 65 63 61 60 58 57 55 54 52 51 50 48 47 46 45 43 72 09 67 65 63 62 60 59 57 56 54 53 52 50 49 48 47 46 45 43 74 69 68 86 64 63 61 60 59 57 55 54 53 52 50 49 47 46 45 75 70 68 67 65 63 62 60 59 57	67	67	65	63	61	59	58	56	55	53	52	50	49	47	46	45	43	42	41
69 68 66 61 62 60 59 57 56 54 53 51 50 49 47 46 45 44 42 70 68 68 64 63 61 59 58 56 55 53 52 50 49 48 47 46 45 44 43 71 68 66 65 63 61 60 58 57 55 54 52 51 50 48 47 46 45 43 72 09 67 65 63 62 60 59 57 56 54 53 52 50 49 48 47 46 45 43 74 69 68 86 64 63 61 60 59 57 55 54 53 52 50 49 47 46 45 75 70 68 67 65 63 62 60 59 57																			
69 68 66 61 62 60 59 57 56 54 53 51 50 49 47 46 45 44 42 70 68 68 64 63 61 59 58 56 55 53 52 50 49 48 47 46 45 44 43 71 68 66 65 63 61 60 58 57 55 54 52 51 50 48 47 46 45 43 72 09 67 65 63 62 60 59 57 56 54 53 52 50 49 48 47 46 45 43 74 69 68 86 64 63 61 60 59 57 55 54 53 52 50 49 47 46 45 75 70 68 67 65 63 62 60 59 57	ao	67	ar	63	62	60	59	5R	55	54	52	51	44	18	47	4.6	44	49	4.9
70 68 66 64 63 61 59 58 56 55 53 52 50 49 48 47 45 44 43 71 68 66 63 61 60 58 57 55 54 52 51 50 48 47 46 45 43 72 09 67 66 63 62 60 59 57 56 54 53 52 50 49 48 46 4 44 44 73 69 67 66 64 62 61 59 58 56 55 53 52 51 49 48 47 46 45 74 69 68 64 63 61 60 58 57 55 54 53 52 51 49 48 47 46 45 76 70 68			1	l	I	ł	1	1	1			1		1	1			1	42
71 68 66 65 63 61 60 58 57 55 54 52 51 50 48 47 46 45 43 72 69 67 66 63 62 60 59 57 56 54 53 52 50 49 48 46 4 44 73 69 67 66 64 62 61 59 58 56 55 53 52 51 49 48 47 46 45 74 69 68 64 63 61 60 58 57 55 54 53 52 50 49 47 46 45 75 70 68 67 65 63 62 60 69 57 56 54 53 52 51 49 48 47 46 76 70 68 67 65 64 62 61 59 58 56 55 54 53 51 50 49 47 77 70 69 67 65 64 63 61 60 58 </td <td></td> <td></td> <td>İ</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>j</td> <td>1</td> <td>1</td> <td>52</td> <td>50</td> <td>49</td> <td>48</td> <td>1</td> <td>45</td> <td>1</td> <td>43</td>			İ		1	1	1	1	j	1	1	52	50	49	48	1	45	1	43
73 69 67 66 64 62 61 59 58 56 55 53 52 51 49 48 47 46 45 74 69 68 66 64 63 61 60 58 57 56 54 53 52 51 49 48 47 46 76 70 68 67 65 64 62 61 59 58 56 55 54 53 52 51 49 48 47 46 77 70 69 67 65 64 62 61 60 58 57 55 54 53 52 50 49 47 78 71 69 68 66 64 63 61 60 58 57 55 54 53 52 50 49 46 78 70 71 69 68 66 64 63 62 60 59 57 56 55 54 53 52 50 49 46 80 71 70 68 66 65 64 62 61 60 58 57 56 55 54 53 51 50 49 48 81 72 70 69 67 65 64 63 61 60 58 57 56 55 54 53 52 51 50 49 48 81 72 70 69 67 65 64 63 61 60 58 57 56 55 54 53 52 51 50 49		68	66	65	63	61	60	58	57	55	54	52	51	50	48	47	46	45	43
73 69 67 66 64 62 61 59 58 56 55 53 52 51 49 48 47 46 45 74 69 68 66 64 63 61 60 58 57 55 54 53 52 50 49 47 46 45 75 70 68 67 65 63 62 60 59 57 56 54 53 52 51 49 48 47 46 45 76 70 68 67 65 64 62 61 59 58 56 55 54 53 51 50 49 47 46 77 70 69 67 65 64 62 61 60 58 57 55 54 53 52 50 49 48 47 79 71	72	69	67	65	63	62	60	59	57	56	54	53	52	50	49	48	46	4	44
74 69 68 64 63 61 60 58 57 55 54 53 52 50 49 47 46 45 76 70 68 67 65 63 62 60 59 57 56 54 53 52 51 49 48 47 46 76 70 68 67 65 64 62 61 59 58 56 55 54 53 51 50 49 47 46 77 70 69 67 65 64 62 61 60 58 57 55 54 53 52 50 49 48 47 70 69 67 65 64 62 61 60 58 57 55 54 53 52 50 49 48 47 79 71 69 68									_										<u></u>
74 69 68 64 63 61 60 58 57 55 54 53 52 50 49 47 46 45 76 70 68 67 65 63 62 60 59 57 56 54 53 52 51 49 48 47 46 76 70 68 67 65 64 62 61 59 58 56 55 54 53 51 50 49 47 46 77 70 69 67 65 64 62 61 60 58 57 55 54 53 52 50 49 48 47 70 69 67 65 64 62 61 60 58 57 55 54 53 52 50 49 48 47 79 71 69 68	70	en	en	Q.	QA.	ρο	ρ1	go.	KΩ	KR	EE.	59	59	51	AQ	عد	AT	100	45
76 70 68 67 65 63 62 60 59 57 56 54 53 52 51 49 48 47 46 76 70 69 67 65 64 62 61 60 58 57 55 54 53 52 50 49 46 47 77 70 69 68 66 64 63 61 60 58 57 56 55 54 53 51 50 49 48 90 71 70 68 66 65 64 62 61 59 58 58 57 55 54 53 51 50 49 48 81 72 70 69 67 65 64 63 61 60 58 57 56 55 54 53 52 51 50 49 48		1	1	1	1			1	1	1	l	1		1	-				45
76			1			1			1		1	1	1		1	1	1		46
77 70 69 67 68 64 62 61 60 58 57 55 54 53 52 50 49 48 47 78 71 69 68 66 64 63 61 60 59 57 58 55 54 52 51 60 49 48 90 71 70 68 66 65 64 62 61 59 58 57 56 55 54 53 52 51 50 49 48 81 72 70 69 67 65 64 63 61 60 58 57 56 55 54 53 52 51 50 49	1	'	1						1		1		1		1			1	46
78		1	i	1	65	64	62	61	60	58	57	55	54	53	52	50	49	48	47
79														<u> · </u>		<u> </u>			_
79	70		00		00		00	01	80	1 20	Em	50		F4	20	F1	50	40-	ATT
90 71 70 68 66 65 64 62 61 59 58 57 55 54 53 52 51 60 48 81 72 70 69 67 65 64 63 -61 60 58 57 56 55 53 52 51 50 48	i i	1	1	1	l	l	l	ļ	l	1	1	l	1	1	1	ł	1	ı	1
81 72 70 69 67 65 64 63 -61 60 58 57 56 55 53 52 51 50 49		1	1	1	l	1	1	1	1	1	1	1	1	1	1	1	l	1	48
		1	l	'	l	l	ł	1	ı	Į.	l	1	l			1	1	1	40
42 102 103 104 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105	82	72	70	69	67	66	64	63	62	60	59	57	56	55	54	53	52	51	49

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 27.7 inches—(continued).

Wet		***************************************				7	/ALUBS	or t-	-t' in l	Degre	es, F	HEENI	ERIT.					
bulb #.	16.2	17	17.5	18	18.2	19	19.5	20	20-5	21	21.5	22	22.5	23	23.2	21	24.5	25
53	28	26	25	24	23	21	20	19	18	17	16	15	14	13	12	11	11	10
54	29	27	26	25	24	22	21	20	19	18	17	16	15	14	13	13	12	11
55	30	28	27	26	25	24	22	21	• 20	19	18	17	16	15	14	14	13	12
56	31	29	28	27	26	25	23	22	21	20	19	18	17	17	16	15	14	13
57	32	30	29	28	27	26	24	23	22	21	20	19	18	18	17	16	15	14
58	33	31	30	29	28	27	25	24	23	22	21	20	19	19	18	17	16	15
59	33	32	31	30	29	28	26	25	24	23	22	21	20	20	19	18	17	16
60	34	33	32	81	29	28	27	26	25	24	23	22	21	21	20	19	18	17
6 i	35	34	33	32	30	29	28	27	26	25	24	23	22	21	21	20	19	18
62	36	35	34	32	31	30	29	28	27	26	25	24	23	22	22	21	20	19
			_				_											
63	37	36	94	33	32	31	30	200	28	27	26	25	24	23	22	22	21	20
64	37	36	34 35	34	33	32	31	29 30	29	28	27	26	25	24	23	22	22	21
65	38	37	36	35	34	33	31	30	30	29	28	27	26	25	24	23	22	22
66	39	38	37	35	34	33	32	31	30	29	28	27	26	26	25	24	23	22
67	40	38	37	36	35	34	33	32	31	30	29	28	27	26	26	25	24	23
								-				-						
												_						
68	40	39	38	37	36	35	84	33	32	31	30	29	28	27	26	26	25	24
69	41	40	39	38	37	36	35	33	33	32	31	30	29	28	27	26	26	25
70	42	40	39	38	37	36	35	34	33	32	31	30	29	29	28 28	27 28	26 27	25
72	42	41	40	39	38	37	36 37	35	34 35	33	32	31 32	30	29	20	28	28	26 27
"	460	42	41	39	38	37	3/	36	30	34	33	34	51	30		20	20	21
			_						_									_
78	44	42	41	40	39	38	37	36	35	34	34	33	32	31	30	29	28	27
74	44	43	42	41	40	39	38	37	36	35	34	33	82	31	81	30	29	28
75	45	44	43	41	40	39	3 8	38	36	35	35	84	38	32	31	30	29	29
76	45	44	43	42	41	40	39	38	37	36	35	34	34	33	32	31	30	29
77	46	45	44	43	42	40	40	39	38	37	36	35	34	33	32	32	81	90
78	46	45	41	43	42	41	40	39	38	37	36	35	35	34	33	32	31	31
79	47	46	445	44	43	42	41	40	39	38	37	36	35	34	34	33	32	81
80	47	46	45	44	48	42	41	40	39	38	37	87	36	35	34	33	33	32
81	48	47	46	45	44	43	42	41	40	39	38	37	36	35	35	84	33	32
82	48	47	46	45	44	43	42	41	40	39	39	38	37	36	35	84	34	33

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 277 inches-(continued).

Wet	Ī			******			VAL	7ES OF	<i>t</i> — <i>t</i> ′ 1	N DEG	REES,	Fahbe	NHEIT.			****		
bulb #.	25.5	26	26.5	27	27.5	28	28.2	29	29 5	30	30.2	31	31.2	32	32.5	33	33.2	84
48	3	2	1	1				1	Ī							Ì		
40	4	8	2	2	1	1		1				1		1	1		l	
50	5	4	3	3	2	2	1	1				l		}		ļ		
51	6	5	4	4	8	3	2	2	1	1							1	
52	8	7	7	6	5	4	4	3	8	2	2	1						
53	9	8	8	7	6	5	5	4	4	3	3	2	2	1	1			
54	10	9	9	8	7	6	6	5	5	4	4	3	8	2	2	1	1	1
55	11	10	10	9	8	8	7	6	6	5	5	4	4	8	3	2	2	1
56	12	12	11	10	10	9	8	7	7	6	6	5	5	4	4	3	3	2
57	13	13	12	11	11	10	9	8	8	7	7	6	6	5	5	4	4	3
58	14	14	13	12	12	11	10	10	9	8	8	7	7	6	6	5	5	4
59	15	15	14	13	13	12	11	11	10	9	9	8	8	7	7	6	6	5
60	17	16	15	14	14	13	12	12	11	10	10	9	9	8	8	7	7	6
61	17	17	16	15	14	14	13	12	12	11	11	10	10	9	8	8	8	7
62	18	17	17	16	15	15	14	13	13	12	11	11	10	10	9	9	8	8
63	19	18	17	17	16	16	15	14	14	13	12	12	11	11	10	10	9	9
64	20	19	18	18	17	16	16	15	15	14	13	13	12	12	11	11	10	9
65	21	20	19	19	18	17	16	16	15	15	14	13	13	12	12	11	11	10
66	22	21	20	19	19	18	17	17	16	16	15	14	14	13	12	12	12	11
67	22	22	21	20	19	19	18	18	17	16	16	15	14	14	13	13	12	12
68	23	22	22	21	20	20	19	18	18	17	16	16	15	15	14	14	13	13
69	24	23	22	22	21	20	20	19	18	18	17	17	16	16	15	14	14	13
70	25	24	23	22	22	21	20	20	19	19	18	17	17	16	16	15	15	14
71	25	25	24	23	22	22	21	21	20	19	19	18	17	17	16	16	15	15
72	26	25	25	24	23	23	22	21	21	20	19	19	18	18	17	17	16	16
73	27	26	25	25	24	23	23	22	21	21	20	19	19	18	18	17	17	16
74	27	27	26	25	25	24	23	23	22	21	21	20	19	19	18	18	17	17
75	28	27	27	26	25	25	24	23	23	22	21	21	20	20	19	19	18	17
76	29	28	27	27	26	25	25	24	23	23	22	21	21	20	20	19	19	18
77	29	29	28	27	26	26	25	25	24	23	23	22	21	21	20	20	19	19
78	30	29	28	28	27	26	26	25	24	24	23	23	22	22	21	20	20	19
79	30	30	29	28	28	27	26	26	25	24	24	23	23	22	22	21	20	20
80	81	80	30	29	28	28	27	26	26	25	24	24	23	23	22	22	21	21
81	31	81	30	29	39	28	27	27	26	26	25	24	24	23	23	22	22	21
88	32	81	81	80	29	29	28	27	27	26	26	25	24	24	23	23	22	22

TABLE VII,

For finding the relative humidity of the air from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 27.7 inches—(concluded).

, —————																	
Wet bulb &.						VALUE	s or t-	t' in	DEGR	ers, F	AHBBN	HRIT.					
Wet buib F.	34.5	3 5	35.2	36	36.2	37	37.5	38	38.5	39	39.5	40	40.2	41	41.5	42	42.5
53																	
54																	
55	1																
56	2	1	1														
57	8	2	2	1	1	1											
*0	4	3	3	2	2	1	1	1									
58 50	5	4	4	3	3	2	2	2	1	1							
59	6	5	5	4	4	3	3	3	2	ł		1	1	1			
60	7	6			5	4	4		3	2	2	2	2	i	,	,	١.
61	7	i	6	5 e	6	4 ₁ 5		3	4	3	2	3		1	1	1	1
62		7	6	6		5	5	4		3	3		2	2	2	1	1
63	8	8	7	7	6	6	6	5	5	4	4	4	3	3	3	2	2
64	9	9	8	8	7	7	7	6	6	5	5	5	4	4	4	8	3
65	10	9	9	9	8	8	7	7	7	6	6	5	5	5	4	4	4
66	11	10	10	9	9	8	8	8	7	7	7	6	6	5	5	5	4
67	11	11	10	10	10	9	9	8	8	8	7	7	7	6	6	6	5
68	12	12	11	11	11	10	10	9	9	8	8	8	7	7	7	6	6
69	13	12	12	12	11	11	10	10	9	9	9	8	8	8	7	7	7
70	14	13	13	12	12	11	11	10	10	10	9	9	9	8.	8	8	7
71	14	14	13	13	12	12	12	11	11	10	10	10	9	9	9	8	8
72	15	15	14	14	13	13	12	12	11	11	11	10	10	10	9	9	9
							 	-	-		-	-	-	-	-	-	
73	16	15	15	14	14	13	13	13	12	12	11	11	11	10	10	10	9
74	16	16	15	15	14	14	14	13	13	12	12	12	11	11	11	10	10
75	17	16	16	16	15	15	14	14	13	13	13	12	12	12	11	11	11
76	18	17	17	16	16	15	15	14	14	14	13	13	12	12	12	11	11
77	18	18	17	17	16	16	15	15	14	14	14	13	13	13	12	12	12
78	19	18	18	17	17	17	16	16	15	15	14	14	14	13	13	13	12
79	19	19	18	18	18	17	17	16	16	15	15	15	14	14	13	13	13
80	20	20	19	19	18	18	17	17	16	16	16	15	15	14	14	14	13
81	21	20	20	19	19	18	18	17	17	16	16	16	15	15	14	14	14
82	21	21	20	20	19	19	18	18	17	17	17	16	16	15	15	15	14
			<u> </u>	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	<u> </u>	1	<u>l</u>	J	1	<u> </u>	<u> </u>	<u> </u>

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°.

Wet						VALUE	or (-	t' in di	egrees,	FAHBE	HBIT.				
bulb t.	0	0'5	1	1.2	2	2.2	3	8.2	4	4.2	5	5 .2	6	6.2	7
23	128	118	·113	107	102	'091	'092	.087	'082	.077	.072	.067	.062	.057	.061
24	128	123	.118	.113	108	'103	-098	*393	'087	*082	.077	.072	*067	-062	.057
25	184	129	124	119	114	108	.103	.098	.093	*088	.083	·078	*073	.068	'068
26	140	.135	130	125	120	1114	109	104	.099	*094	.089	'084	.079	'074	.068
27	146	.141	136	·131	·126	•121	·116	•110	105	·100	.095	.090	*085	.080	*078
	.159	148	142	-137	'132	127	-122	-117	1112	107	102	*096	.091	*086	.081
28 29	·153	154	142	114	139	134	122	·117	112	107	102	103	.098	.093	.088
30	167	161	156	151	146	141	136	123	116	120	115	110	105	100	*095
31	174	169	164	158	153	148	143	138	133	128	123	118	112	107	102
32	182	176	170	165	159	153	1148	142	136	.131	125	120	114	108	.103
	<u> </u>														
33	189	·183	178	172	166	161	155	149	144	138	132	127	121	.116	.110
34	197	.191	185	·180	174	· 16 8	163	.157	.151	146	140	134	129	123	117
85	204	·199	.193	.187	182	.176	171	165	159	154	148	142	.137	131	12
36	213	207	*201	196	190	184	179	.173	.167	.162	156	150	145	.139	.13
37	•221	.215	•210	204	·198	193	187	181	175	.170	164	.159	.153	147	.14
38	230	.224	218	-213	-207	201	'196	-190	184	179	173	167	*162	.156	.15
39	•239	·2 3 3	-227	-222	•216	210	205	.199	193	188	182	.176	171	165	15
40	248	243	-237	•231	-226	.220	214	208	•203	197	191	186	•180	174	-16
41	258	.252	*247	-241	*235	-229	224	218	.212	207	201	'195	•190	184	17
42	*268	-262	-257	*251	*245	240	.234	-228	•222	217	.511	205	*200	.194	-16
	.070					.000									-
43 44	278	273	267	261	256	·250 ·261	.055	238	233	227	221	216	*210	'204 '215	120
45	300	·283	278	2/2	278	201	·255	249	·243	238	243	·226	221	216	20
46	312	806	-300	285	278	2/2	277	272	266	240	245	238	232	237	-23
47	1324	318	312	.306	301	295	289	283	278	272	266	261	245	249	2.
ayaha ayan a sa da Marana a sa sa sa sa sa sa sa sa sa sa sa sa	-														
48	*336	.830	*824	-319	-313	*807	*302	296	-290	*284	*279	-273	-267	262	-24
40	-349	'343	*837	.331	*326	320	*814	*309	.303	297	*291	286	*280	274	-26
50	-362	.356	'350	'345	.339	.383	-827	*322	'316	.310	'304	*299	-203	287	.38
51	*375	*370	'364	·358	-352	*847	'841	-335	'329	*324	.318	.312	.306	.301	-24
52	-389	1384	·378	1872	-366	.361	*855	*349	'343	*338	-332	.326	*320	'315	-80

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches in the latitude of 22° —(continued).

						V	LUES	or t—t	" 12T D	EGRER	в, Бан	BENHE	IT.					
Wet bulb t'.	7.5	8	8.2	9	9.5	10	10-5	11	11.2	12	12.2	13	13.5	14	14.5	15	15.2	16
23	.046	•041	.036	·031	.028	.021	-016	.011	.006	.001					1	Ì	İ	
24	.052	*047	-042	.037	.031	.026	-021	.016	.011	-008	.001			1		1		
25	*057	.052	'047	'042	.037	.032	.027	·C22	.017	012	.007	.001				1	1	
26	*063	.058	·053	·048	.043	.038	.033	· 02 8	.023	·018	.012	1007	.002					
27	·070	•064	·059	'054	049	044	1039	.034	029	024	.019	.013	-cos	.003				1
28	076	.071	.066	061	*056	.051	·045	040	.035	.030	·025	020	.012	.010	.002	- 1	l	- 1
29	.083	.078	.072	.067	.062	.057	*052	.047	'042	'037	.032	026	021	.016	.011	.006	.001	
30	.090	.085	.080	-074	.069	.064	•059	.054	.049	.044	.039	.033	.028	.023	.018	.013	.008	.003
31	'097	.092	087	.082	077	.071	.066	.061	.056	.021	016	'041	.036	.030	.025	.020	015	.010
82	.097	.091	.086	1980	.074	.069	.063	.058	.052	.046	.041	.035	.029	.024	.018	'012	1007	.001
	_																	
33	104	.099	.093	.087	.082	.076	-070	.065	.059	.053	.048	*042	-036	.031	.025	•020	.017	·008
34	·112	.106	100	.092	.089	.081	'078	.072	.067	.061	.055	.050	.044	.038	.033	.027	.021	-016
35	120	1114	.108	.103	'097	.091	.086	.080	-071	.069	.063	.057	.052	.018	.010	.032	'029	.023
36	128	122	·116	·111	105	.099	'094	.088	.082	*077	'071	'065	.060	.051	.018	043	037	.031
37	130	130	120	110	113	108	'102	.096	.091	*085	'079	.071	.068	'062	.057	.021	.045	-040
	1345			1100	1100			-										
38	145	·139	1	128	122		111	1	1	1		1	1	071	065	i	054	1
40	163	157	152	146	1		129	1	1	1	ì			.089		1		·057
41	173	167	161	158	150					121	1	1		.099	.093		082	.078
42	183	177	171	.166	160	154	148	143	.137	131	. 126	120	114	109	103	.097	.092	.088
 		-	J	_	-		-	-		_	_	-	_		-	_	_	
43	193	187	182	176	170	164	159	153	147	145	136	130	125	-119	.113	107	102	.098
44	204	198	192	186	181	175	160	1		"	1	1			1		1	
45	215	209	-203	199	·192	186	180	175	169	168	158	152	146	141	135	129	123	118
46	-226	220	215	.209	203	197	192	186	180	178	169	163	158	152	146	140	135	129
47	-258	232	226	*221	215	209	204	198	192	186	181	176	1.69	.163	156	152	146	141
46	-250						-							1	1-		1	1
48 49	268	1		1		1		1	1	1	1	1	1		-{	1		į.
50	276	1	1	1		1	1	1	1	1	1		1		1	1	1	1
51	289			i		1 '	1		1	1	1 -	1	1	1	1	1	1	
52	-303	1297	1	1	}	1	1		1	1	1			1	1	i		1

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22° —(continued).

Wet						₹.	LUES	or t—t	' IN DI	GREES,	FAHR	enhei:	r.					
bulb t.	16.2	17	17:5	18	18:5	19	19.5	20	20.5	21	21.5	22	2 2·5	23	23.5	24	24.5	25
23																		
24							ĺ											
25																		
26					ĺ		1						į				1	•
27							İ								l			
								<u> </u>							 			
28						1		}				Ì						
29												}						
80																		
81	.002																	
82																		
		-													<u> </u>			
88	.003]]								
84	·010	-084												1				1
85	.018	·01 2	.007				İ]			
86	026	·0 2 0	·014	.008	.003		l				1		1	1		1		l
87	.034	·028	.023	'017	1011	.008								1	1			
									 -								-	
88	.043	.037	·031	-026	-020	·014	.009	-003							•			
89	.052	·046	040	-085	-029	·0 2 3	·017	.012	.006					1		1	1	1
40	.061	.055	1040	044	.038	.032	.027	·021	.012	·010	.004		l					
41	.070	1065	-059	.053	.078	.042	.036	*080	·0 2 5	.019	.013	-008	.002				1	
42	.080	.075	-069	.063	*057	.052	*046	.040	*085	.029	.023	-018	-012	-006				Ì
																	ļ	 -
43	.090	085	-079	1073	-068	.062	.056	.050	.045	.039	.033	.028	.022	.016	'011	-005		
44	101	.095	-090	084	078	072	'067	.061	.055	050	.044	.038	.032	.027	021	.012	.010	.004
45	112	108	101	·095	.089	'084	.078	.072	.066	061	055	*049	-044	.088	.032	.026	.021	.015
46	128	118	2	106	100	.092	.088	•083	.078	.072	.066	.060	*055	.049	043	.038	-082	.028
47	135	129	123	·118	112	106	101	*095	.089	'083	.078	.072	.086	1061	.055	-049	7043	-038
																<u></u>		
48	147	141	136	130	124	118	113	·107	101	·096	.090	·084	.078	.078	-067	-061	-055	.050
- 1	160	154	148	142	187	1181	113	120	1114	108	102	1097	.091	078	-079	001	-068	'062
50	173	167	161	155	150	144	138	132	127	121	115	110	104	.088	1092	1087	.081	7075
51	186	180	174	169	163	157	152	146	140	134	129	128	117	1111	106	100	001	1088
52	200	194	188	188	177	171	165	160	154	148	142	137	'131	125	119	114	108	102

TABLE VIII.

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°—(continued).

						7	ALUES	07 t-	-t' 13t]	DEGRE	ES, FAI	HRBNH:	ept,					
Wet bulb t'.	25.2	26	26.5	27	27.5	28	28.5	29	29°5	80	30.2	31	31.2	32	32.5	33	83.2	84
23							***************************************											
24																		
25																		
26	-																	ĺ
27																		
28 29 30 31 32																		
33																		
34																		
35																		
36																		
37																		
38																		
39																		
40																		
41																		
42																		
43																		
44																		
45	.009	·004																
46	.020	.012	.009	.003														
47	.032	-026	*021	·015	.008	.003												
48	044	*0 3 8	-038	.027	.021	015	-010	.004										
49	.057	051	1046	027	*034	018	010	016	.011	1005								
50	.069	.064	.058	.052	*046	.041	.035	1029	*024	.018	.012	.006	·001					
51	.083	-077	.071	·065	·060	.054	-048	-042	.037	.031	.025	-020	.014	-008	1002			
52	1096	.091	·085	-079	1073	·068	-062	-056	-050	.045	.039	-033	.027	022	.016	-010	.002	

TABLE VIII.

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°—(continued).

Wet						Values	or t-t	' IN DE	ORRES,	Fahren	HRIT,				
bulb ".	0	0.2	1	1.2	2	25	3	3.2	4	45	5	5.2	6	65	7
53	404	,398	'392	.387	.381	*375	-369	.361	·35 8	352	.346	.341	-335	-329	323
54	419	413	407	401	.396	·39 0	*384	·37 8	·373	.367	·361	-355	•350	*344	*338
55	431	1428	· 423	417	· 4 11	· 4 05	· 4 00	·394	*388	·382	-377	.371	-365	•359	*354
56	450	*444	439	438	-427	421	· 41 6	· 4 10	401	.398	*392	*387	-381	•375	*369
57	167	461	455	*440	444	*438	· 4 32	· 42 6	•121	*115	409	·403	-397	-392	*386
58	-491	-478	-172	-466	-461	.455	-449	•143	-437	•432	•426	•420	.414	-409	-408
59	501	195	-490	181	478	.472	166	461	455	.449	443	438	432	·426	•420
60	.219	·514	.208	.502	196	400	-485	479	•473	467	461	456	*450	444	438
61	•538	•532	·526	·521	·515	.509	•503	· 1 97	*492	486	480	-474	468	•463	45
62	·557	. 551	'546	·510	•534	*528	•522	·517	·5 11	-505	· 49 9	·493	· 4 88	·482	-4/70
63	.577	·571	*506	•560	'554	518	*542	.537	.531	*525	·519	.213	.208	*502	*49
61	*598	·592 ·613	·586 ·607	.580	.574	*569	*563	.557	'551	*545	•540	.534	*528	522	.21
65	·619 ·641	635	-629	·601	·596 ·617	·590 ·612	·581	·578 ·600	·572	.566	'561	*555	549	543	'53'
66 67	.663	*657	651	*646	·640	.631	-628	.622	*617	·611	·582 ·605	·577 ·599	·571 ·593	·565 ·587	·556
										}					
68	.686	*680	·675	·669	.663	*657	·651	·645	1640	*634	*628	*622	616	*611	.60
69	'710	·704 ·729	·699 ·723	.693	'687	*681	*675	·669 691	.663	.658	'652	646	'640	634	-62
70	'735 '760	729	723	'717 '743	'711	·706	·700	719	·688 ·713	682	'676	'671	*665	.659	*65
71 72	786	781	775	769	·737 ·763	757	725	745	740	·708	·702 ·728	·696 ·722	·690 ·716	*710	*67 *70
73	·813	1807	'802	·796	.790	784	*778	.772	·766	.761	.755	-749	.743	.737	-78
74	.841	•835	*829	*823	.818	-812	*806	.800	794	.788	.782	*777	771	-765	-25
75	·870	1864	'85 8	.823	*846	*840	*834	-829	·823	-817	.811	*805	·799	.793	*78
76	.899	-893	1887	*881	1876	1870	*864	.858	*852	*846	1840	1834	1829	-823	-81
77	1929	1923	1918	912	1906	1900	*894	*888	*882	*876	·870	*865	*859	*853	*84
78	960	•955	940	943	937	931	925	.919	913	908	-902	-896	-890	1884	197
79	.883	1987	.981	975	.969	.863	957	951	946	940	934	928	-922	-916	91
80	1 028	1.020	1.014	1.008	1.002	1996	-990	1984	978	973	967	961	955	-949	-94
81	1.060	1.034	1.048	1.042	1.036	1.030	1 024	1.018	1012	1.007	1.001	1995	1989	-983	197
83	1.092	1.089	1.083	1.077	1.071	1.065	1.059	1.023	1.047	1.041	1.036	1-030	1.024	1.018	1.01

TABLE VIII.

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25°8 inches and in the latitude of 22°—(continued).

Wet		T					VALU	BS OF	t-t' 11	г Джен	ers, I	AHRE	HRIT.					
bulb t'.	7.5	8	8.2	9	9.5	10	10.2	11	11.2	12	12.2	13	13.2	14	14'5	15	15 5	16
53	.318	312	.306	.300	•295	•289	283	-277	.272	·26 6	·260	254	249	243	237	-231	•226	.220
54	.332	327	·321	315	309	·304	·298	.292	*286	281	•275	269	•263	-258	-252	•246	240	235
55	348	342	.336	.331	·325	·31 9	.313	.307	*302	296	290	284	.279	.273	-267	.261	256	.250
56	*364	*358	•352	'346	·341	.335	-329	*323	.318	312	.306	.300	294	.289	*283	.277	'271	266
57	.880	374	-369	.363	·357	.351	*345	.340	'334	*328	*322	'317	·311	'305	299	-294	*288	.282
												 	l		<u> </u>			
58	-397	391	-385	.380	374	·368	*362	.357	.351	'345	.339	.333	-328	-322	.316	.310	•335	.299
59	414	409	103	.397	.391	386	.380	374	.368	.362	.357	'351	·345	-339	.334	*328	.322	.316
60	433	·427	421	415	·409	404	-398	.392	-386	.380	.875	.369	.363	.357	.352	·346	'340	.334
61	451	445	440	434	· 42 8	·422	416	411	405	.399	.393	'287	.382	'376	.370	·364	.358	.353
62	470	.464	459	453	447	· 44 1	·435	· 43 0	424	418	412	· 4 06	.101	*395	.389	.383	.378	.372
															 			
-	.400	-404	1470	473	467	· 4 61	155	450	-444	438	432	'426	421	-415	-409	-403	-397	-391
63 64	·490 ·511	·484 ·505	·479 ·499	193	487	481	476	470	464	458	452	1447	441	435	429	423	418	412
65	*532	•526	.520	*514	.508	.503	497	491	485	.479	473	468	462	456	450	*444	439	433
66	.553	.548	.542	.536	.530	*524	518	.513	.507	.201	495	1489	484	478	472	*466	460	454
67	.576	•570	-564	.558	.552	.547	.541	*535	-529	·523	.218	.512	.506	.500	491	-488	483	477
											l							
68	.299	•593	.587	.281	.576	·570	.564	*558	.552	546	541	535	.529	523	-517	.211	.506	.200
69	*623	*617	·611	*605	.599	.593	.588	*582	*576	570	*584	*558	.553	-547	.541	*535	529	.523
70	*647	*641	-636	·630	624	618	'612	·606	·600 ·626	·595 ·620	·589 ·614	·583 ·608	·577 ·602	·571 ·597	·565	*560	554	548
71	·673 ·699	·667	·661 ·687	'681	-675	-669	·637 ·663	658	652	-646	-640	634	*628	623	-617	.611	·579 ·605	·573
72	099	-093	007	081	0/5	009	003	000	002	0.50	0.20	003	028	023	617	611	005	566
								_	_					-			_	
73	725	*720	714	'708	.702	-696	-690	'684	-679	.673	-667	.661	.655	*649	-643	-638	-632	-626
74	758	*747	.741	*736	.730	724	.718	.712	.706	.700	*694	.689	.683	-677	.671	-665	-659	.623
75	*782	776	'770	*764	758	752	746	'741	.735	.729	.723	.717	711	.705	-699	-694	'688	-682
76	*811	*805	799	'793	'787	'782	.776	'770	'764	'758	752	'746	740	'735	.729	723	717	.711
77	*841	*835	*829	*823	.818	*812	.808	.800	'794	·788	'782	.776	'771	'765	'759	*753	747	741
								_										
78	*872	-866	•860	*855	·840	843	*837	.831	-825	.819	*813	·807	*802	-796	.790	.784	.778	.772
79	904	-898	1893	1887	*881	*875	.869	-863	*857	*851	'845	.839	·834	*828	-822	'816	-810	*804
80	937	931	925	·919	914	908	902	-896	.890	*884	*878	·872	-866	-861	'855	·849	1843	.837
81	971	965	959	953	948	942	-936	-930	924	.918	912	906	1900	*894	*888	*883	·877	1871
83	1.008	1.000	994	1988	982	977	971	·965	959	953	947	941	935	-929	923	917	912	1906

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25°8 inches and in the latitude of 22°—(continued).

Wet bulb #.											FAHR.	PWTPW						
						'-	DUED (19 2	TABBO,	FARE	B Mai	•		1			
	16.5	17	17.5	18	18.2	19	19.5	20	20.2	21	21.5	22	22.2	23	23.2	24	24:5	25
53	214	208	203	197	191	185	180	174	168	162	·157	.151	145	·139	184	·128	122	116
54	229	.223	.217	.212	*206	200	194	189	.183	-177	171	·166	·160	154	148	·143	137	.131
55	244	238	.533	.227	.221	'215	.210	204	198	192	187	·181	.175	'169	.163	·158	152	146
56	260	254	248	243	.287	.531	•225	-220	.214	208	.505	.196	.191	185	179	178	•168	'162
57	276	270	265	.259	253	247	.242	.236	230	.224	.219	·213	*207	201	195	.190	184	178
58	293	287	281	276	270	264	*258	.253	-247	-241	-235	-229	-224	218	-212	206	201	195
59	.310	305	299	.293	287	281	.276	270	264	258	.253	.247	241	•235	.229	224	218	*212
60	328	-323	'317	·311	.305	299	294	*288	*282	276	· 27 0	•265	259	253	*247	.242	236	230
61	347	341	·335	'329	·324	.318	·312	·3 06	.300	295	259	•283	·277	.272	*266	260	254	248
62	.366	.360	354	.349	.343	·337	.331	•325	·320	.314	.308	*302	296	-291	*285	279	273	*267
63	-386	.380	.371	.368	-362	357	.351	*345	.339	•333	.328	-322	·316	·310	*304	-299	.293	287
64	406	.400	.391	.398	-383	.377	.371	.365	.359	*354	*348	.342	.336	-330	*325	*319	.313	*307
65	427	421	415	410	104	.398	·392	'386	.380	-375	.369	.363	.357	'351	-346	.340	334	*328
66	449	443	-437	·431	125	· 42 0	414	·408	.402	.396	.390	·385	·379	·373	*367	·361	.356	.35 0
67	171	465	459	453	·448	442	436	· 43 0	424	418	· 4 13	· 4 07	·401	.395	.388	*384	*378	-372
68	191	488	482	476	471	465	.459	453	447	.441	436	430	·424	418	412	·406	.401	-395
69	518	.512	.206	-500	-404	488	483	477	471	465	459	*453	· 4 48	442	436	430	424	*418
70	·542	·586	-530	·525	·519	.513	.507	·501	405	490	484	.478	472	*466	460	454	449	*443
71	·567	·561	.556	·550	.544	.538	·532	·526	·520	·515	•509	.203	497	491	485	480	.474	·468
72	·593	·587	·582	·576	.570	·564	· 55 8	.552	·546	·541	•535	.529	•523	·517	.211	.202	.200	-494
70	620	614	-608	602	-597	.591	.285	.579	.573	-567	·561	·556	•550	.544	-538	·532	-526	•520
78 74	648	642	-636	630	624	618	612	-607	601	•595	*589	-583	.577	.571	.262	*560	.554	548
75	-676	.670	.664	.658	-652	-647	641	.635	.629	.623	'617	.611	.608	.600	*594	*588	.285	.576
76	705	-699	·693	1688	-682	676	·670	.664	658	•652	.646	·641	•635	-629	·623	.617	·611	-605
77	735	729	723	718	712	706	700	1694	.6 88	·682	.676	.671	*665	·659	•658	· 64 7	.641	·685
-	768	*760	754	·740	743	787	·781	·725	719	713	·707	·702	-696	.690	-684	-678	-672	-666
78 79	798	792	786	781	775	769	763	725	718	745	707	702	728	722	.716	710	704	1698
80	.831	825	.819	.813	807	1802	796	790	784	778	772	766	760	754	749	743	737	731
81	965	*859	1853	-847	·8 4 1	-885	-829	1824	.818	·812	*806	-800	794	*788	*788	'776	770	765
82	-900	*894	.888	-882	-876	-870	-864	·858	-852	·847	-841	-835	-829	-828	-817	-811	-805	799

TABLE VIII,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches and in the latitude of 22°—(concluded).

Wet						VA	LUES ()	' IN D	EGREE	, Fan	RENHE	T,					
bulb t'.	25.5	26	26-5	27	27.5	28	28.2	29	29.5	30	30.2	81	31 .2	82	32.5	38	33.5	34
53	111	105	.099	.093	*088	*082	.076	.070	1065	-059	.053	.047	.042	.036	-030	*024	.018	.013
54	125	119	114	108	102	.098	·091	.085	-079	-073	-068	.062	.056	·050	*045	-039	-083	.027
55	140	·135	·1 2 9	·123	·117	1112	.106	.100	*094	.088	.083	.077	·071	.086	.060	.051	.048	.013
56	·156	· 15 0	145	.139	.133	.127	.122	.116	·110	104	.098	.093	·087	.081	.075	.070	.064	.058
57	172	167	.161	.122	149	·144	·138	.132	126	120	·115	.109	.103	.097	.092	*086	.080	·07·4
									<u> </u>		 		<u> </u>	 	!		<u> </u>	
58	.189	183	.177	.172	186	.160	154	149	143	-137	.131	·126	120	114	.108	102	-097	.091
59	206	201	195	·189	183	177	.172	166	160	·154	149	143	137	·181	125	120	114	108
60	*224	•218	· 2 13	207	201	.195	-189	184	178	.172	166	.161	155	149	143	137	182	126
61	243	-237	.231	•225	•219	214	208	202	.196	.190	185	179	178	'167	-161	156	•150	114
62	*262	•256	•250	244	-238	.533	-227	•221	.215	209	204	·198	·192	186	.180	175	.169	163
									<u> </u>			<u> </u>					<u> </u>	-
63	.281	275	-270	·264	-258	-252	*246	-241	-235	-229	-223	217	.212	206	.200	194	188	183
64	.301	296	290	284	.278	.272	.267	•261	•255	-249	243	238	-232	.226	.220	214	208	203
65	.322	'316	·311	.302	299	.293	*287	*282	276	270	264	.258	.253	-247	241	235	229	223
66	*344	.338	.332	.326	.321	.315	.309	-303	-297	-292	-286	280	274	268	262	-257	.251	*245
67	.366	*360	354	.349	-343	.337	'331	-325	*319	314	· 3 08	-302	296	290	285	.279	273	-267
68	-389	-383	.0==	.073	-366	-360	*354	-348	-342	-336	-331	-325	-319	-313	307	-301	-296	290
69	413	407	·377 ·401	·871 395	389	383	378	372	366	360	354	348	.343	337	331	325	.319	313
70	-437	431	425	419	.414	408	.402	-396	-390	*384	379	.378	.367	361	*355	-349	-348	-338
71	*462	456	450	.444	439	433	-427	421	415	•409	•404	.398	.392	.386	380	374	.368	363
72	·488	462	476	-470	*464	· 4 59	453	*447	-441	·435	.429	424	418	412	·406	400	'394	-388
						.40=			.400	.400	,450		.444	1400	,,,,,,,	Ann	.,,01	
78 74	·515	·509	·503 ·530	·497 ·524	'492 '519	·485 ·513	·479 ·507	·474 ·501	·468 ·495	·462 ·489	·466 ·483	450	444	·438	·432 ·460	·427 ·454	·421 ·448	·415
75	-570	*564	.559	553	*547	•541	.535	.529	-523	.517	512	-506	.500	494	*488	-482	476	471
76	*599	-694	·588	.582	.576	-570	.584	.558	.552	•547	.541	*535	.529	-523	-517	.511	.505	.500
77	629	'624	· 61 8	·612	-606	-600	-594	•588	*562	'576	·571	.565	.559	.553	-547	.241	-585	.529
78	1660	*655	·649	*643	637	.631	·625	.619	*613	1807	·601	·596	*590	*584	•578	*572	·566	·560
79	*692 *725	******	·680	·875	-669	·663	·657 ·690	·651 ·684	·645 ·678	·639 ·672	·688	·627	622	·616	·610	*604 *636	·596	·692
90 61	759	*719 *753	·718	707	701	·729	723	717	711	706	700	.694	.688	682	-676	·670	.664	·658
83	793	787	-782	776	770	764	758	752	746	740	784	728	722	717	711	.705	-699	-693
			1						ليتبا				1					

TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry tand wet bulb t thermometers, at the mean barometric pressure of 25.8 inches.

Wet					٧	ALUES (or t-t'	IN DEG	rees, F	AHRENH	EIT.				
bulb £.'	0	0.2	1	1.2	2	2.2	8	3.2	4	4.2	5	5.2	6	6.2	7
23	100	94	88	82	76	71	66	61	56	52	47	43	39	35	31
24	100	94	88	63	77	72	67	62	57	53	48	44	40	86	83
25	100	94	88	83	78	78	68	63	58	54	50	46	42	38	35
26	100	94	89	83	78	73	68	64	59	55	51	47	44	40	36
27	100	94	89	84	79	74	69	65	60	56	52	40	45	42	38
28	100	94	89	84	79	75	70	66	62	58	54	50	46	43	40
29	100	94	89	84	80	75	71	67	63	59	55	51	48	44	41
80	100	94	89	85	80	78	72	68	64	60	56	52	49	46	43
31	100	95	90	85	81	76	72	68	65	61	57	54	51	47	44
32	100	95	90	85	81	77	73	69	64	60	56	53	50	46	48
												ļ			
33	100	95	90	86	81	77	73	69	65	61	57	54	51	48	44
34	100	95	90	86	82	78	74	70	66	62	58	55	52	49	46
35	100	95	91	86	82	78	74	70	67	63	59	56	53	50	47
86	100	95	91	87	83	79	75	71	67	64	60	57	54	51	48
87	100	95	91	87	63	79	75	72	68	65	61	58	55	52	49
	100	95	91	0.5	83								50		
38	100	95	91	87 87	84 84	79	76	72	69	65	62	60 60	56 57	53 54	50
39 40	100	96	92	88	84	80 80	76	78	69	66	63 64	61	58	55	51 52
41	100	96	92	88	85	81	77 77	73 74	70 71	67 68	65	62	59	56	53
42	100	96	92	88	85	81	78	74	71	68	65	62	60	57	54
_				~	-	31	.0	(**	′1	36	30	"	~	"	"
43	100	96	92	88	85	81	78	75	72	69	66	63	60	57	55
44	100	96	92	89	85	82	79	75	72	69	66	64	61	58	55
45	100	96	92	89	86	82	79	76	73	70	67	64	62	59	56
46	100	96	92	89	86	83	80	76	73	71	68	65	62	60	57
47	100	96	93	89	96	83	80	77	74	71	68	66	63	61	58
, 48	100	96	98	90	86	83	80	77	75	71	69	66	64	61	59
40	100	96	93	90	87	84	81	78	75	72	69	67	65	62	60
50	100	96	93	90	87	84	81	78	75	72	70	67	65	63	61
61	100	97	93	90	87	84	81	78	76	73	70	68	66	64	61
52	100	97	93	90	87	85	83	79	76	73	71	68	66	64	63

TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches—(continued).

	LOHOI	- (00																
Wet						1	ALUES	OF t-	t in d	egree	8, FAH	RENHI	IT.					
bulb t.'	7.5	8	8.2	9	9.5	10	10.2	11	11.2	12	12.2	13	19.5	14	14.5	15	15.5	16
23	27	24	20	17	14	11	8	5	2									
24	29	26	22	19	16	13	10	8	5	3								
25	81	28	24	21	18	16	13	10	8	5	3	1						
26	33	29	26	23	20	18	15	13	10	8	5	3	1					
27	35	31	28	25	22	20	17	15	12	10	8	5	8	1				
															-		! -	
28	36	33	30	27	24	22	19	17	14	12	10	8	6	4	2			
29	38	35	32	29	26	24	21	19	16	14	12	10	8	8	4	2		
30	40	87	34	31	28	26	23	21	18	16	14	12	10	8	6	4	2	1
81	41	38	35	33	30	28	25	23	20	18	16	14	12	10	8	6	4	3
82	40	87	34	31	28	26	23	21	18	16	14	12	10	8	6	4	2	
						l												
83	41	38	35	33	30	27	25	22	20	18	16	14	12	10	8	6	4	2
34	43	40	37	34	31	29	26	24	22	20	18	16	14	11	10	8	6	4
35	44	41	38	35	33	30	28	25	23	21	19	17	15	13	11	10	8	6
36	45	42	39	87	34	32	30	27	25	23	21	19	17	15	13	11	10	8
37	46	43	41	38	36	33	31	29	27	24	22	20	19	17	15	13	11	10
38	47	45	42	39	37	35	32	80	28	26	24	22	20	18	17	15	13	11
39	48	46	43	41	38	36	34	32	29	27	26	24	22	20	18	17	15	12
40	49	47	44	42	40	37	35	33	31	29	27	25	23	21	20	18	16	13
41	50	48	45	48	41	39	36	34	32	30	28	26	25	23	21	19	18	14
42	51	49	46	44	42	40	3 8	36	34	31	80	28	26	24	23	21	19	15
											-							
48	52	50 #1	47	45 46	43	41	39 40	37	35	33	31	29 30	27	25 27	24 25	22 24	21	19
44 45	53 54	51 52	40	47	44	43	41	38 39	36	34 35	32 33	81	30	28	27	25	24	22
46	55	53	50	48	46	44	42	40	38	36	34 34	83	31	29	28	26	25	23
47	56	53	51	40	47	45	43	41	39	37	35	34	32	30	29	27	26	24
48	57	54	52	50	48	46	44	4.2	40	38	36	35	33	32	30	29	27	26
49	58	55	58	51	40	47	46	43	41	39	37	36	34	33	81	80 81	28	27
50 51	59 59	56	54 55	52	50	48	46	44	42	40	38 39	37 38	36 36	34 35	32 33	32	29 30	28
52	80 80	57 57	55	53 53	51 51	40	47 48	46	43	41	40	39	37	36	34 34	83	81	30 30
	50	• • • • • • • • • • • • • • • • • • • •	1 00	00	01	7	20	-50	1 23	76	(" "	-	1 "		"		"	

TABLE IX,

For finding the Belative Humidity of the Air from the readings of the dry s and wet bulb s thermometers, at the mean barometric pressure of 25.8 inches—(continued).

Wet						1	ALUES	or <i>t</i> -	-t' in 1	EGREI	is, Fah	rene	IT.					
bulb t.'	16 5	17	17.5	18	18 5	19	19 5	20	20.2	21	21.2	22	22.5	23	23.5	24	24'5	25
28																		
24																		
25 26																		
27																		
28																		
29																		
30 31	1																	
32	•																	
33	1																	
84	2	1																
85	4	8	1															
86 87	6 8	5 7	8 5	2	1 3	1												
					-													
38	10	9	7	6	4	8	2	1										
89	12	10	9	7	6	5	4	2	1									
40	13	12	11	9	8	7	5	4	8	2	1							
41	15	18	12	11	9	8	7	6	5	8	2	1		_				
42	16	15	13	12	11	9	8	7	6	5	4	8	2	1				
43	18	16	15	14	12	11	10	9	8	7	6	5	4	3	2	1		
44	19	18	16	15	14	18	11	10	9	8	7	6	5	4	8	2	1	1
45	21	19	18	16	15	14	18	12	10	9	8	7	7	6	5	4	8	2
46	22	20	19	18	16	15	14	13	12	11	10	9	8	7	6	5	4	8
47	23	21	20	19	18	17	15	14	13	12	11	10	9	8	7	6	6	5
48	24	23	21	20	19	18	17	16	15	14	12	11	10	9	8	8	7	6
40	25	24	23	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7
50	26	26	24	23	21	20	19	18	17	16	15	14	13	13	11	10	9	8
51	28	26	25	24	22	21	20	19	18	17	16	15	14	13	12	11	10	9
52	20	27	26	25	23	22	21	20	19	18	17	16	15	14	18	13	12	11

TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches—(continued).

Wat						7	7ALUES	OF t-	-t' 13f 1	DEGREE	is, Fab	(RENH	RIT.	-				
Wet bulb f.'	25.5	26	26.2	27	27.5	28	28.2	29	29.5	30	30.5	31	31.2	82	32.2	33	33.2	34
23																		
24 25																		
26																		
27																		
28 29 30 31																		
32																		
33 34 35 36 37																		
38 39 40 41 42																		
43 44 45 46 47	1 8 4	1 2 3	1 3	1. 2	1	1												
46 49 50 51 52	5 7 8 9	5 6 7 8	4 5 6 . 7	3 4 6 7 8	2 4 5 6 7	2 3 4 5 7	1 2 4 5	1 2 3 4 5	1 2 4 5	1 2 3 4	1 2 4	1 2 8	1 2	1 2 -	1	1	-	

TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches—(continued).

Wet	1				VAI	TES OF	<i>t</i> − <i>t'</i> n	f DEGRE	es, Fa	HRRNHRI	T.				
bulb t.	0	0.5	1	1.2	2	2 5	3	3.2	4	4.2	5	55	6	6-5	7
53	100	97	94	91	88	85	82	79	77	74	71	69	67	65	62
54	100	97	94	91	88	85	82	79	77	74	72	69	67	65	68
55	100	97	94	91	88	85	83	80	77	75	72	70	68	66	63
56	100	97	94	91	88	86	88	80	78	75	73	71	68	66	64
67	100	97	91	91	88	86	83	80	78	78	73	71	69	67	68
58	100	97	91	91	89	86	83	81	78	76	74	72	69	67	6
59	100	97	94	92	89	86	84	81	79	77	74	72	70	68	6
60	100	97	91	92	89	87	84	81	79	77	75	78	70	68	6
61	100	97	94	92	89	87	84	82	79	77	75	73	71	69	6
62	100	97	91	92	89	87	84	82	80	78	76	73	71	69	6
63	100	97	91	92	RU	87	85	82	80	78	76	74	72	70	6
64	100	97	94	92	90	87	85	83	80	78	76	74	72	70	6
65	100	97	95	92	90	87	85	83	81	79	77	74	72	70	1
66	100	97	95	92	90	88	85	83	81	79	77	75	78	71	e
67	100	97	95	93	90	88	86	83	81	79	77	75	78	71	•
68	100	97	95	93	90	88	86	84	81	79	77	75	73	72	7
69	100	97	95	93	90	88	86	84	82	80	78	76	74	72	2
70	100	97	95	93	90	88	86	84	82	80	78	76	74	73	1
71	100	98	95	93	91	88	86	84	82	80	78	76	74	78	۱ ا
72	100	98	95	99	91	89	86	84	82	80	78	76	75	73	'
78	100	98	95	93	91	89	87	84	82	81	79	77	75	73	
74	100	88	95	93	91	89	87	85	83	81	79	77	75	78	١,
75	100	98	95	93	91	89	87	85	83	81	79	77	75	74	!
76	100	98	95	93	91	89	87	85	88	81	79	77	76	74	۱
77	100	98	96	93	91	89	87	85	83	81	80	78	76	74	
78	100	98	96	93	91	89	87	85	83	82	80	78	78	74	
79	100	98	96	91	91	89	87	85	84	82	80	78	76	74	
80	100	98	96	64	93	90	88	86	84	82	80	78	77	75	
81	100	98	96	94	92	90	88	86	84	82	80	78	77	75	
82	100	98	96	94	92	90	88	86	84	82	80	78	77	75	.

TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 25.8 inches—(continued).

Wet						V	'ALUES	O# #	# 13f	DEGRE	es, Fa	HRENH	BIT.					
bulb t.	7.5	8	8.2	9	9.5	10	10.2	11	11.2	12	12.5	13	13.2	14	14'5	15	15.5	16
53	60	58	56	54	52	50	48	47	45	43	41	40	38	87	35	34	32	31
54	61	59	57	55	53	51	49	47	46	44	42	41	39	38	3 6	35	33	32
55	61	59	57	55	53	52	50	48	46	45	43	41	40	88	37	36	84	33
56	62	60	58	56	54	52	51	40	47	45	44	42	40	39	3 8	87	35	84
57	62	60	58	56	55	53	51	40	48	46	44	43	41	40	39	87	36	35
58	63	61	59	57	55	54	52	50	48	47	45	43	42	41	39	38	37	36
59	64	62	60	5 8	56	54	52	51	49	48	46	45	43	42	40	39	37	36
60	64	62	60	58	57	5 5	53	51	50	48	47	45	44	42	41	40	38	37
61	65	63	61	59	57	56	54	52	51	49	4/7	46	44	43	42	40	39	88
62	65	63	61	59	5 8	56	55	53	51	50	48	47	45	41	42	41	40	89
·																	<u> </u>	
63	66	64	62	60	58	57	55	54	52	50	449	48	46	45	43	42	41	39
64	66	64	62	60	59	57	56	54	53	51	50	48	47	45	44	43	41	40
65	67	65	63	61	59	58	56	55	53	52	50	4.9	47	46	45	43	42	41
66	67	65	63	61	60	58	57	55	51	52	51	49	48	47	45	44	43	42
67	68	66	64	62	60	59	57	56	54	53	51	50	49	47	46	45	44	42
						ļ								_			 	
68	68	66	64	62	61	59	58	56	55	53	52	51	49	48	46	45	44	43
69	68	66	65	63	61	60	58	57	55	54	52	51	50	48	47	46	45	43
70	69	67	65	63	62	60	59	57	56	54	53	52	50	40	48	46	45	44
71	69	67	65	64	62	61	59	56	56	55	53	52	51	50	48	47	46	45
72	69	68	66	64	63	61	60	58	57	55	54	53	51	50	49	47	46	45
73	70	68	66	65	63	62	60	59	57	56	54	53	52	51	49	48	47	46
74	70	68	67	65	63	62	61	59	58	56	55	54	52	51	50	48	47	46
75	70	69	67	65	64	62	61	60	58	57	5 5	54	58	51	50	40	48	4/7
76	70	69	67	66	64	63	61	60	59	57	56	55	53	52	50	40	48	47
77	71	69	68	66	65	63	62	60	59	58	56	55	54	52	51	50	40	48
78	71	70	68	66	65	64	62	61	59	58	57	55	54	53	51	50	49	48
79	71	70	68	67	65	64	63	61	60	58	57	56	55	53	52	51	50	40
80	n	70	69	87	66	64	63	62	60	59	57	56	55	54	52	51	50	49
81	72	70	89	67	66	65	63	62	61	59	58	56	55	54	53	52	51	50
88	72	71	69	68	66	65	64	62	61	60	58	57	56	55	53	52	51	50

TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches—(continued).

						······································	Value:	03 t-	-t' 1N :	DEGRE	rs, Fai	CERNH	eit.					
Wet bulb t.'	16.5	17	17.5	18	18-5	19	19.5	20	20.2	21	21.5	22	22.5	23	23.2	24	24.5	25
	30	- 28	27	 26	24	23	22	21	20	19	18	17	16	15	15	14	18	12
54	81	29	28	27	25	24	23	22	21	20	19	18	17	16	16	15	14	13
55	32	30	29	28	26	25	24	23	22	21	20	19	18	17	17	16	15	14
56	33	31	80	29	27	26	25	24	23	22	21	20	19	18	18	17	16	15
57	83	32	31	30	28	27	26	25	24	23	22	21	20	19	19	18	17	16
58	34	88	32	31	29	28	27	26	25	24	23	22	21	20	20	19	18	17
59	35	84	33	32	30	29	28	27	26	25	24	23	22	21	21	20	19	18
60	86	85	33	32	31	30	29	28	27	26	25	24	23	22	21	21	20	19
61	37	36	34	33	32	31	30	29	28	27	26	25	24	23	22	22	21	20
62	37	86	85	34	33	32	31	30	29	28	27	26	25	24	23	22	22	21
63	38	87	36	35	84	33	32	81	30	29	28	27	26	25	24	23	22	22
64	39	88	87	36	35	34	32	81	30	29	28	27	26	25	25	24	23	22
65	40	38	37	36	35	34	33	32	31	3 0	29	28	27	26	25	25	24	28
66 67	40 41	39 40	38 39	37 38	36 36	35 35	34 34	33 33	32 33	31 82	30 31	29 30	28 29	27 28	26 27	26 26	25 26	24 25
		•••			"		U a	30	99	0	01	W	20	20		20		~
68 69	42 42	41 41	39 40	38 39	37	36	35	34 or	33	32	31	30	30	29 29	28	27	26 27	26
70	43	42	41	40	38 38	37 37	36 36	35 35	34 34	33 33	32 33	31 32	30 31	30	28 29	28 28	28	26 27
71	43	43	41	40	39	38	37	36	35	34	88	32	32	31	30	29	28	28
72	44	43	42	41	40	39	38	37	36	35	34	33	32	81	31	30	29	28
78	45	43	43	41	40	39	38	37	36	35	35	34	33	32	81	30	29	29
74	45	44	48	42	41	40	39	38	87	36	35	34	33	32	32	31	90	29
75	46	45	44	42	41	40	39	38	38	37	36	35	34	33	32	32	31	30
76	46	45	44	48	42	41	40	39	38	87	36	35	35	34	88	82	81	81
77	47	48	45	44	48	42	41	40	39	38	37	36	35	34	84	33	32	81
<u> </u>																		
78	47	46	45	44	48	42	41	40	39	88	37	37	36	85	84	88	82	32
79	48	47	46	45	44	48	42	41	40	39	3 8	87	36	35	86	84	33	32
80	48	47	46	45	44	48	42	41	41	40	39	38	37	36	85	84	33	33
81	40	48	47	46	45	44	48	42	41	40	39	88	87	36	36	85	34	83
82	49	48	47	46	45	44	48	42	48	41	40	39	38	87	86	35	84	84

TABLE IX,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 25.8 inches—(concluded).

	rone																	
Wet bulb ∜.						V	ALUES	OF f-	f' in d	RGREE	s, Fan	RENEE	IT.					
Duto v.	25.2	26	26.5	27	27.5	28	28.5	29	29.5	30	30-5	31	31.5	32	32.5	83	33.2	34
53	12	11	10	9	8	8	7	6	6	5	5	4	4	3	3	2	2	1
54	13	12	11	10	10	9	8	8	7	6	6	5	5	4	4	3	8	2
55	14	13	12	11	11	10	9	9	8	7	7	6	6	5	5	4	4	8
56	15	14	13	12	12	11	10	10	9	8	8	7	7	6	6	5	5	4
57	16	15	14	18	13	12	11	11	10	9	9	8	8	7	7	6	6	5
	<u> </u>								<u> </u>									
58	17	16	15	14	14	13	12	12	11	10	10	9	9	8	8	7	7	6
59	17	17	16	15	14	14	13	12	12	11	11	10	10	9	9	8	8	7
60	18	18	17	16	15	15	14	13	13	12	12	11	11	10	10	9	8	8
61	19	18	18	17	16	16	15	14	14	13	13	12	11	11	10	10	9	9
62	20	19	18	18	17	16	16	15	15	14	13	13	12	12	11	11	10	10
63	21	20	19	19	18	17	17	16	16	15	14	14	13	12	12	11	11	10
64	21	21	20	20	19	18	18	17	16	16	15	15	14	13	13	12	12	11
65	22	22	21	20	20	19	18	18	17	16	16	15	15	14	14	13	12	12
66	23	22	22	21	20	20	19	18	18	17	16	16	15	15	14	14	13	13
67	24	23	22	22	21	20	20	19	19	18	17	17	16	16	15	14	14	13
			ļ														ļ	
68	25	24	23	22	22	21	20	20	19	19	18	17	17	16	16	15	14	14
69	25	25	24	23	23	22	21	20	20	19	19	18	18	17	16	16	15	15
70	26	25	25	24	23	23 、	22	21	21	20	19	19	18	18	17	17	16	16
71	26	26	25	25	24	23	23	22	21	21	20	19	19	18	18	17	17	16
72	27	27	26	25	24	24	23	23	22	21	21	20	19	19	18	18	17	17
											_							
78	28	27	27	26	25	24	24	23	23	22	21	21	20	20	19	19	18	18
74	28	28	27	26	26	25	24	24	23	23	22	21	21	20	20	19	19	18
75	29	28	28	27	26	26	25	24	24	23	23	22	21	21	20	20	19	19
76	80	29	28	28	27	26	26	25	24	24	23	23	22	21	21	20	20	19
77	30	80	29	28	28	27	26	26	25	24	24	23	23	22	21	21	20	. 20
78	81	30	29	29	28	27	27	26	26	25	24	24	23	23	22	21	21	20
79	31	31	30	29	29	28	27	27	26	25	25	24	24	23	28	22	22	21
80	83	32	81	80	29	29	28	27	27	26	25	25	24	24	23	23	22	22
81	33	82	31	30	30	29	29	28	27	27	26	25	25	24	24	23	23	22
82	33	88	32	81	30	30	20	28	28	27	26	26	25	25	24	24	28	23
L1	}	1	. ,	٠ ١	1	1	1	i		1					1	j	- 1	. 4

TABLE X,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 23.4 inches and in the latitude of 22°.

Wet	Ī					VA	LUES	or t—t	'IN D	egr y r:	, FAR	rn H B	T.						
bulb	0	0.8	1	1.2	2	2.5	8	3.2	4	4.5	5	5.2	6	6.2	7	7.5	8	8.2	9
15	*086	*082	-077	.073	.068	-063	·059	.054	·050	·045	'041	-036	.031	-027	*022	-018	.013	-006	-004
16	-090	.086	.081	1076	.072	'087	1063	*058	.053	·049	'044	'040	.035	.031	*026	.021	.017	.013	900
17	.091	.090	*085	1080	.078	.071	'087	.062	•058	1053	'048	044	'039	'085	.030	*025	.021	-016	.012
18	*098	*094 *098	·089 ·094	'085 '089	*080 *085	*076 *080	·071	·066	*062 *066	·057	·053	048	*048	*039 *043	'034	*030 *034	·026	020	-016
19	103	OBO	009	Udø	000	080	0/0	0/1	Voo	002	007	002	Vaso	U ₃	000	00%	028	*025	-020
																		i—	
20	108	103	.098	·09 i	1089	*085	.080	·075	.071	'066	*062	1057	·052	1048	*043	1039	*034	-029	.025
21	112	.108	.103	.099	.001	.089	.085	.080	.076	.071	.066	'062	*057	.053	*048	'043	-039	034	.030
22	117	113	108	104	1099	1094	.090	.085	'081	·076	1071	1067	1062	*058	*053	048	*044	.039	*034
23	·123	·118	·113	·109	·104	·100	·095	*090 *096	*096 *091	·081 ·087	·077	·072	·067	·063	·058	·053	*049 *054	·044 ·050	*040
24	120	127	119	***	110	100	100	Ugo	091	007	002	0//	0/3	000	009	008	009	080	*045
															-				
25	134	129	125	120	115	.311	106	102	.097	092	1088	.083	·078	*074	.069	1065	.080	*055	.021
26	140	135	.131	126	121	117	112	108	.103	.098	.094	.089	*084	.080	.075	.070	.066	-061	•057
27	146	141	137	132	128	123	118	114	109	104	100	.095	.091	*088	•081	.077	072	*067	.063
28	·153	148	·143	·139	·134 ·141	129	·125	·120 ·127	·116	·111	106	102	·097	*092 *099	·088	.083	·078	*074	.069
29	199	100	150	110	141	130	154	12/	122	110	110	100	104	000	08-9	1090	VOD	'081	.076
80	166	162	157	153	148	143	139	134	129	125	.130	115	.111	.106	102	*097	1092	*088	.083
81	174	169	165	.160	155	151	146	141	137	132	127	123	.118	•113	·10 9	104	-099	-095	.090
32	182	176	171	166	161	156	151	146	141	135	130	125	120	115	110	105	100	.095	.089
88	189	184	179	178	168	163	166	·153	'148 '155	·143	·138	133	127	·122	·117	·112	·107	102	097
34	197	191	190	101	170	171	100	101	195	100	190	190	100	100	120	120	114	109	104
-	_						_	_			-								
85	204	199	191	.189	184	179	174	168	.163	158	153	148	143	138	.133	·127	122	117	·112
36	218	207	202	197	192	187	182	177	171	166	161	156	151	146	141	.136	190	125	120
87	221	216	211	206	200	195	190	185	180	175	170	165	159	154	149	144	189	134	129
88	230	225	219	214	209	204	199	194	189	183	·178	·173	·168	163	·158 ·167	153	·147 ·158	142	137
89	*239	234	*228	'223	218	213	208	203	198	192	191	105	MI	-1/2	107	162	790	151	146
	\neg	\neg			-				_										
40	248	243	238	233	228	222	217	212	207	202	197	192	186	.181	176	171	166	161	155
41	258	253	248	242	237	232	227	-222	217	.511	206	201	196	191	186	180	175	170	165
42	268	263	258	252	247	242	237	232	227	222	216	211	206	201	196	191	185	180	175
43	278	278	268	263	258	252	247	242	237	232	227	221	216	211	206	201	196	190	185
44	289	284	279	274	268	263	258	*253	248	243	237	.232	227	723	217	.311	206	201	196

TABLE X,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 23.4 inches and in the latitude of 22°—(continued).

Wet						7	ALUES	or t-	-t' in i	BGREE	s, Fai	(BRNH)	BIT.					
bulb t.'	9.5	10	10.2	11	11.2	12	12.5	13	13.2	14	14.5	15	15.5	16	16.5	17	17.5	18
15																		
16	.003											1			į .			
17	.007	.002																
18	.011	.007	.002				ŀ								1	ĺ		
19	·016	·011	-008	.002														
20	*020	*016	.011	•006	.002				-									
21	.025	.020	.016	.011	.008	.002							l					
22	•030	.025	.021	.016	.011	.006	.002											
23	.035	.030	.026	.021	.017	.012	.007	.003										
24	*040	.036	.031	.027	·022	.017	·013	.008	.003									
25	.046	'041	.037	.032	.028	'023	.018	'014	.000	'004								
26	.052	.047	043	.038	.034	.029	·024	.020	.015	· 0 10	.006							
27	.058	.051	.049	.044	040	*035	.030	.026	.021	.017	.012	'007						
28	·065	.080	.055	051	*046	'041	037	.032	'028	.023	.018	.014	.009	1004				
29		'067	-062	'057	.053	.048	.043	-039	'034	.030	*025	·020	.016	.011	900			
30	.078	-074	.069	·064	.060	·055	.050	046	.041	.037	.032	-027	.023	.018	.013	.009	·004	
31	.086	.081	.076	.072	.067	.062	·058	.053	·048	.044	.039	.034	.030	.025	.021	.016	·011	.007
32	084	.079	.074	.069	·064	·059	.054	.049	.043	.038	.033	·028	.023	.018	.018	.008	-003	
33	.092	·086	180	.076	.071	.066	.061	.056	.051	·046	·040	·035	.030	.025	.020	·015	·010	1005
34	.099	.094	.089	·084	.079	.073	.068	.063	·058	053	·048	.043	.03 8	.033	·027	.022	·017	*012
35	107	.102	.097	092	*086	.081	-076	.071	.066	061	.056	.051	-045	*040	.035	-080	.025	-020
36	115	1102	105	100	1094	.088	·084	.079	074	.069	064	.059	053	'048	033	.038	.033	020
87	123	118	113	100	103	.098	.093	.087	074	0077	072	.067	.062	057	051	046	'041	.036
38	132	127	122	117	111	106	101	-096	002	.086	081	075	.070	.065	.090	055	.050	·045
39	141	136	.181	126	120	115	110	105	.100	.095	.090	'084	079	074	.069	'064	1059	.053
40	150	145	140	135	130	125	119	114	109	104	.C99	094	.089	.083	078	073	-068	.063
41	160	155	150	144	139	134	129	124	119	113	108	108	.100	.093	.088	.083	*077	1072
42	·170 ·180	165	160	154	149	144	139	134	129	128	118	113	108	108	1098	·092	·087 ·097	1082
43	191	·175	·170 ·180	·165 ·175	159	·154 ·165	·149	144	139	184	·128	123	118	·113	·108	113	108	103
99	191	100	190	.1/0	1/0	-100	100	700	149	144	128	103	1.20	142	*10	110	760	100

TABLE X,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 23.4 inches and in the latitude of 22° —(continued).

	Values of $t-t'$ in Degrees, Fahrenheit.																		
wet bulb	0	1 0.5	Γ.	1	1 .		ī	Ţ	1	1	5	5.2	6	6.5	Τ.	1	8	0.5	<u> </u>
	0	0.5	1	1.2	2	2.2	8	8.5	4	4.5	•	5.9	0	0.9	7	7.5	•	8.2	9
45	1300	•295	290	-285	-280	-274	*269	264	-259	254	249	243	-238	•233	-228	•223	218	212	207
46	*312	· 3 07	·301	·296	-291	*286	•281	.275	.270	*265	260	255	•250	244	239	234	*229	224	-218
17	*324	*318	*313	.308	.303	*298	*292	*287	.282	*277	*272	*266	*261	*256	251	246	241	235	
48	.336	331	*325	'320	'315	310	*305	.300	294	289	284	279	274	268	263	258	253	248	
4.9	*340	*343	-338	.333	*328	'323	.317	312	307	302	*297	291	'286	281	*276	.271	.265	*260	*255
50	*362	-357	*351	*316	*341	*336	-331	*325	•320	*315	'310	.305	*299	294	289	*284	279	273	268
51	*375	.370	365	360	354	*349	344	-339	334	*328	.323	318	.313	.308	.302	297	292	-287	282
52	-389	*384	.379	374	.368	.363	*358	*353	*348	*342	.337	.332	*327	322	.316	311	.306	301	296
53	·404	-399	.393	·388	*383	.378	.372	*367	.362	*357	.352	*346	'341	.336	.331	·326	320	.315	.310
54	· 4 19	· 4 13	·408	403	-398	.393	*387	.382	*377	.372	-367	.361	.356	.351	.346	'340	.335	-330	*325
						 									<u> </u>		_		
55	434	· 42 9	421	418	413	-468	*403	•398	.392	*387	*382	.377	'371	.366	.361	.356	·351	*345	*340
56	45 0	· 44 5	'440	*434	•429	424	· 41 9	413	·408	'403	*398	.393	.387	.382	.377	.372	-366	*361	*356
57	*467	'461	156	451	.416	440	435	430	125	420	414	409	401	.399	393	'388	*383	*378	372
58 59	*484	.478	473	1468	*463	157	·152	*447	·442 ·459	436	·431	'426	·421 ·438	·415	·410 ·428	405	·400	·395	389
- 08	901	.496	'491	*485	*480	*475	4/0	*464	4509	404	-2-10	443	438	200	920	-944	311		407
60	.519	. 514	*509	.504	*498	•493	•488	483	-177	.472	467	•462	456	451	•446	.441	-435	.430	425
61	*538	-533	.527	.522	.517	.512	-506	.201	496	•491	485	480	475	•470	464	.459	454	•449	*443
62	-557	.552	.547	*541	.536	.531	•526	-520	.212	·510	·505	•499	494	489	484	478	.473	468	.463
63	.577	.572	•567	*561	.556	.551	·546	.540	.535	•530	.525	.519	.514	-509	·503	·498	493	·488	.482
64	•598	*592	-587	.582	.577	.571	.266	. '561	· 5 55	•550	·545	-540	.234	·529	·524	·519	·513	· 5 08	*503
												<u> </u>							
65	.619	·613	.608	.603	·598	.265	·587	·582	.577	'57 1	·56 6	·561	.222	•550	·5 4 5	•540	.234	·529	·524
66	·641	*635	.630	· 62 5	.619	614	.609	·604	•598	'593	•587	.582	577	·571	·566	·561	·555	· 5 50	*545
67	.663	*658	'653	*647	*642	*637	· 63 1	·626	·621	.616	.610	· 6 05	•600	594	.288	*584	579	.573	.568
68	-686	.681	*676	.670	*665	.660	*655	-619	644	·639	-633	-628	-623	·618	612	1607	·602	·596 ·620	-591
69	·710	.705	·700	*694	.689	'684	·678	·673	*668	*662	·657	*652	·647	041	.636	.631	020	020	615
70	735	.730	*724	•719	.714	*708	703	1898	-692	•687	·682	-677	.671	-666	·661	-655	·650	*646	-639
71	760	755	·724	719	719	708	703	723	·718	712	.707	702	*697	·691	.689	*681	675	670	-865
72	786	781	776	770	765	760	755	*749	744	739	733	.728	723	717	712	706	701	-696	691
73	.813	·808	.808	797	792	.787	781	.776	771	765	780	*755	749	744	739	·733	728	723	718
74	1841	·836	-830	-825	· 82 0	·814	-809	·804	798	·793	788	783	.777	772	767	761	756	750	745
														1		_		_	$-\ $
75	-870	'864	.859	*854	'848	*843	*838	832	827	*822	·816	.811	-806	*800	795	790	784	779	774

TABLE X,

For finding the Tension of Vapour in the Air, in English inches, from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 23.4 inches and in the latitude of 22°—(cancluded).

Wet						V.	LLUES	OF <i>t</i> -	t' in I	egeri	is, Fan	RENHE	IT.					
bulb t.	9.5	10	10.2	11	11.2	12	12.2	13	13.2	14	145	15	15·5	16	16.2	17	17.5	18
45	.202	·197	·192	·186	181	·176	·171	·166	·161	.155	.150	145	140	·135	·130	124	-119	.114
46	213	.208	203	198	193	187	182	.177	172	167	·161	156	·151	148	141	136	·130	125
47	-225	-220	215	209	204	.199	194	189	184	·178	.173	168	163	158	·152	147	'142	137
48	237	-232	.227	•222	216	211	206	201	196	·191	185	180	.175	.170	165	159	154	149
49	.250	245	*240	234	*229	-224	.518	214	208	203	199	193	188	182	·177	172	·167	162
50	263	•258	*253	247	242	237	•232	227	-221	·216	211	206	201	.195	.190	185	180	175
51	276	.271	266	261	256	.250	245	240	235	230	224	219	214	.509	204	198	193	188
52	290	285	280	275	269	264	.259	254	249	•243	.238	•233	.228	.223	·217	.212	207	202
53	.302	299	294	289	284	279	273	268	· 26 3	258	·253	247	.242	.237	.232	-226	.221	216
54	·320	*314	.309	304	299	•293	*288	283	.278	.273	-267	·262	257	252	·246	241	•236	231
55	•335	.333	*324	.319	314	.309	*304	*298	293	288	.283	.277	272	267	.262	.257	.251	246
56	.351	·346	·340	· 3 35	.330	'325	.319	*314	.309	304	-298	-293	288	283	.278	•272	.267	.262
57	·367	.362	357	·351	·346	·341	.336	.331	*325	320	-315	.310	304	299	-294	•289	'283	278
58	384	•379	·374	·368	.363	•358	*353	*347	'342	.337	332	·326	*321	.316	.311	.302	.300	•295
59	•402	.396	.391	-386	.381	*375	·370	·365	.360	·354	.349	·314	.339	.833	*328	*323	.318	'312
60	·420	·414	•409	· 4 0 4	.399	.393	·388	.383	.378	·372	-367	*362	*357	*851	*346	'341	.339	.330
61	· 43 8	433	428	· 42 2	417	· 4 12	407	·401	.396	.391	.386	.380	·375	.370	*365	-359	*854	*349
62	457	•452	-447	442	· 43 6	· 43 1	·426	·420	415	· 4 10	405	·400	·394	.389	*384	· 37 8	.373	-368
63	·477	•472	467	·461	·456	451	146	·440	•435	·430	•425	· 4 19	414	.409	403	.398	.393	*388
64	· 49 8	492	*487	*482	·476	·471	·466	·461	·455	·450	*445	·440	434	429	424	· 4 18	'413	·4 08
65	·519	·513	•508	.503	497	•492	-487	·482	.476	.471	'466	•461	.455	·450	'445	.439	.434	*429
66	.539	·53 4	· 52 9	·524	· 51 8	·513	-508	·50 2	497	.492	·486	181	·476	•470	*465	· 4 60	454	•449
67	•563	·557	•552	•547	·542	·536	.231	·526	•520	·515	-510	.505	·499	494	489	·483	.478	472
68	·586	•581	.575	•570	•565	•559	.554	·549	•543	-538	-533	-528	·522	.217	-512	.208	.201	*496
69	· 61 0	*604	·599	·594	·588	•583	.228	.573	-567	562	-557	.221	*546	.241	-535	-530	*525	•520
70	·634	-629	.624	· 6 18	·613	•608	*602	-597	.592	.586	.281	.576	·571	-565	•560	•655	.540	.211
71	-659	·654	-649	-644	-638	.633	-628	•622	·617	.612	•606	.601	•596	•590	•585	.280	.575	-569
72	·685	-680	-675	-670	·664	-659	.654	-648	·643	-638	'632	·627	-622	.618	·611	.606	.601	.595
73	712	-707	702	-696	·691	*686	·680	.675	-670	-664	-659	'654	-649	-643	· 63 8	.633	·627	-622
74	·740	*735	-729	·724	719	.713	.708	703	-697	*692	*687	.681	-676	'671	-866	.660	'855	-650
75	·768	•763	·758	•752	-747	•742	-737	731	.726	•721	•715	.710	-705	-699	-694	-689	*688	*678

TABLE XI,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb thermometers, at the mean barometric pressure of 23.4 inches.

 ,	mones.																		
Wet bulb							VALUE	S OF	_t' 1N	DEGE	ees, F	AHERN:	HEIT.					,	
v.	0	(•5	1	15	2	25	8	3.2	4	45	5	5.2	6	65	7	75	8	8.2	9
15	100	93	86	79	72	66	60	54	49	42	38	33	28	23	19	15	11	7	3
16	100	93	86	79	73	67	62	56	49	44	39	35	30	25	21	17	13	10	6
17	100	94	87	80	74	68	62	57	52	46	41	36	32	27	23	19	16 18	12 15	9
18 19	100 100	94 94	87 87	80 81	74 75	69 70	63 64	58 59	53 54	48 49	43 45	38 40	34 36	29 31	25 28	22	20	17	11 14
							02		-										
20	100	94	88	82	76	70	65	60	55	51	46	42	37	33	29	26	22	19	16
21	100	94	88	82	76	71	66	61	57	52	47	43	39	35	31	28	25	21	18
22	100	94	88	83	77	72	67	62	58	53	40	45	41	37	33	30	27	23	20
23	100	91	88	83	78	73	68	63	59	54	50	46	42	39	35	32	28	25	22
21	100	95	89	84	78	71	69	64	59	55	52	48	44	40	37	38	30	27	24
																	<u> </u>		
25	100	95	89	84	79	74	69	65	61	57	53	49	45	41	38	35	32	29	26
26	100	95	90	85	79	75	70	66	62	58	54	50	46	43	40	37	34	81	28
27 28	100	95 95	90	85 85	80 81	76	71	67	63 64	59 60	56 56	51 53	48	46	41	38 40	35 36	32 34	30
29	100	95	90	86	81	76 77	72	68 69	65	61	57	54	51	47	44	41	38	35	31
																			-
30	100	95	90	86	82	77	74	69	65	62	59	55	52	40	46	43	40	37	35
81	100	95	91	87	82	78	74	70	67	63	60	56	53	50	47	44	41	38	36
32	100	95	89	86	82	78	74	70	66	62	59	55	52	49	46	43	40	38	35
83	100	95	90	86	82	78	74	71	67	63	60	56	53	50	47	44	42	39	37
31	100	95	90	87	83	79	75	71	68	64	61	57	51	51	48	45	43	40	38
										-			-			 	 		
35	100	96	91	87	83	79	76	72	68	65	62	58	55	52	40	47	44	41	39
36	100	96	91 91	87	83	80	76	78	69	66	62	59	56	54	50	48	45	42	40
37 38	100	96 96	92	88	84 84	80	77	73	70	67	63	60	57 58	54 55	51 52	50	46	43	41 42
39	100	96	92	88	84	81	78	74	71	68	65	62	59	56	53	51	48	46	43
40	100	96	92	88	85	81	78	75	72	68	66	63	60	57	54	52	49	47	44
41	100	96	92	89	85	82	78	75	72	69	66	64	61	58	55	53	50	48	45
43	100	96	92	89	85	82	79	76	73	70	67	64	62	59	56	53	51	40	46
43	100	96	93	89	86	82	79	76	73	70	68	65	62	60	57	54	52	50	47
44	100	96	93	89	86	83	80	77	74	(71	68	65	63	60	58	55	53	50	48

TABLE XI,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t^1 thermometers, at the mean barometric pressure of 23.4 inches—(continued).

						ν.	alves	OF <i>t</i> —	t' xm D	EGRRE	s, Far	RENHE	IT.					
Wet bulb t'.	9.2	10	10.2	11	11 5	12	12.5	13	13 5	14	14.5	15	15.5	16	16 5	17	17.5	18
15	1		<u> </u>	<u>' </u>				<u></u>		-	·							
16	2																	
17	5	1															İ	
18	7	5	1															
19	10	7	4	1														
								-										
20	12	9	6	3	1													
21	15	12	9	6	3	1												
22	17	14	11	8	6	3	1											
23	19	16	13	11	8	6	3	1										
24	21	18	15	13	10	8	6	4	1									
																		-
25	23	20	18	15	13	10	8	6	4	2								
26	25	22	20	17	15	13	11	8	6	4	2							
27	27	21	22	19	17	15	13	11	9	7	5	3						
28	29	26	24	21	19	17	15	13	11	9	7	5	3	1				
29	30	28	25	23	21	19	17	15	13	11	9	7	5	4	2		ĺ	
30	32	30	27	25	23	21	19	17	15	13	11	9	8	6	4	3		
81	33	31	29	27	24	22	20	18	16	15	13	11	9	8	6	5	3	2
32	32	30	27	24	22	20	18	16	14	12	10	8	6	5	3	2	5	
33	34	31	29	26	24	22	20	18	16	14	12	10	9	7	5	4	2	1
34	35	33	30	28	25	23	21	20	18	16	14	12	11	9	7	6	4	3
35	36	34	32	29	27	25	23	21	19	18	16	14	12	11	9	8	6	5
36	37	35	83	31	28	26	25	23	21	19	17	16	14	13	11	10	8	6
37	39	36	34	32	30	28	26	24	22	21	19	17	16	14	13	11	9	8
38	40	3 8	36	33	31	29	27	26	24	22	20	19	17	16	14	13	11	10
39	41	39	37	85	32	31	29	27	25	24	22	20	19	17	16	14	13	11
40	42	40	88	36	34	32	30	29	27	25	23	22	20	18	17	16	14	13
41	43	41	39	37	35	33	31	30	28	26	25	23	22	20	18	17	16	14
42	44	42	40	38	36	34	38	31	29	28	26	24	23	21	20	18	17	16
43	45	43	41	39	87	35	34	32	30	29	27	25	24	22	21	20	18	17
44	46	44	42	40	38	37	85	83	81	80	28	27	25	24	22	21	20	18

TABLE XI,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t thermometers, at the mean barometric pressure of 23.4 inches—(continued).

Wet						•	VALUE	or t-	-é' in	Dren	es, Fa	HRENI	ert.						
ť.	0	05	1	1.6	2	25	3	3.2	4	4.2	5	5.2	6	6.2	7	7.5	8	8.2	9
45	100	96	93	90	86	83	80	77	74	71	69	66	63	61	59	56	54	51	49
46	100	98	93	90	87	83	80	77	75	72	69	67	64	61	59	57	55	52	50
47	100	96	93	90	87	84	81	78	75	72	70	67	65	62	60	57	55	53	51
48	100	97	93	90	87	84	81	78	75	73	70	68	65	63	61	58	56	54	52
49	100	97	93	90	87	84	81	79	76	73	71	68	66	64	61	59	57	54	52
50	100	97	93	91	88	85	82	79	76	74	71	69	66	64	62	60	58	55	53
51	100	97	91	91	88	85	82	79	77	74	72	69	67	65	62	60	59	56	54
52	100	97	91	91	88	85	82	80	77	75	72	70	67	65	63	61	59	57	55
53	100	97	94	91	88	85	83	80	78	75	73	70	68	66	64	62	60	57	56
54	100	97	94	91	88	86	63	80	78	76	73	71	68	66	64	62	60	58	56
55	100	97	91	91	88	86	83	81	78	76	74	71	69	67	65	63	61	59	57
58	100	97	91	91	89	86	83	81	79	76	74	72	69	67	65	63	61	59	57
57	100	97	94	92	89	86	84	81	79	77	71	72	70	67	66	64	62	60	58
58	100	97	94	92	89	86	84	81	79	77	75	72	70	68	66	64	62	60	59
59	100	97	94	92	89	87	81	82	79	77	75	73	71	69	67	65	63	61	59
60	100	97	95	92	89	87	84	82	80	77	75	73	71	69	67	65	63	61	60
61	100	97	95	92	90	87	84	82	80	78	76	73	71	70	68	66	64	62	60
62	100	97	95	92	90	87	85	82	80	78	76	74	72	70	68	66	64	62	61
63	100	97	95	92	90	87	85	83	80	78	76	74	72	70	68	67	65	63	61
64	100	97	95	92	90	88	85	83	81	78	77	74	73	71	69	67	65	63	62
65	100	97	95	92	90	88	86	83	81	79	77	75	73	71	69	67	66	64	62
66	100	97	95	92	90	88	86	83	81	79	77	75	73	71	70	68	66	64	63
67	100	97	95	93	90	88	88	84	81	79	78	78	74	72	70	68	67	65	63
68	100	97	95	98	90	88	96	84	82	79	78	76	74	72	70	69	67	65	63
69	100	97	95	93	91	88	86	84	82	80	78	76	74	72	71	69	67	66	64
70	100	98	95	93	91	89	86	84	82	80	78	78	75	73	71	69	68	66	64
71	100	98	95	93	91	89	86	84	82	80	78	77	75	73	71	70	68	66	65
72	100	98	95	93	91	89	87	85	82	80	79	77	75	73	72	70	68	67	65
73	100	98	96	93	91	89	87	85	83	81	79	77	75	74	72	70	69	67	65
76	100	98	96	93	91	89	87	85	83	81	79	77	76	74	72	71	69	67	66
75	100	98	96	93	91	89	87	85	83	81		78	76	74	73	71	69	68	66

TABLE XI,

For finding the Relative Humidity of the Air from the readings of the dry t and wet bulb t' thermometers, at the mean barometric pressure of 23.4 inches—(concluded).

Wet						V.	ALUES (0¥ <i>t—t</i>	' IN D	EGREE	s, Fah	BRNHE	IT.					
bulb #.	9.5	10	10.2	11	11.2	12	12.2	13	13.2	14	14 5	15	15.2	16	16.2	17	17.5	18
45	47	45	43	41	39	38	36	34	33	31	29	28	27	25	24	22	21	20
46	48	46	44	42	40	39	37	35	34	32	30	29	28	26	25	24	22	21
47	49	47	45	43	41	40	38	36	35	83	32	30	29	27	26	25	23	22
48	50	48	46	44	42	41	39	37	36	34	33	31	30	28	27	26	21	23
49	51	49	47	45	43	42	40	38	37	35	34	32	31	29	28	27	25	24
50	51	50	48	46	41	43	41	39	38	36	35	33	32	31	29	28	27	25
51	52	50	49	4/7	45	43	42	40	39	37	36	34	33	32	30	29	28	26
52	53	51	50	148	46	44	43	41	40	38	37	35	34	32	31	30	29	27
53	53	52	50	40	47	45	44	42	41	39	38	36	35	33	32	31	30	28
54	54	53	51	49	48	46	45	43	41	40	39	37	36	34	33	32	31	29
55	55	53	51	50	48	47	46	44	42	41	39	38	36	35	84	83	31	30
56	56	54	52	50	49	47	46	45	43	41	40	39	37	36	35	33	32	31
57	56	55	58	51	49	48	47	45	44	42	41	39	38	37	35	34	33	32
58	57	55	54	52	50	49	47	46	44	43	42	40	39	38	36	35	34	32
59	57	56	54	53	51	49	48	46	45	44	42	41	40	38	37	36	34	33
60	58	56	55	53	52	50	48	47	46	44	43	42	40	39	38	87	35	31
61	58	57	55	54	52	51	49	48	46	45	43	42	41	40	39	37	36	35
62	59	57	56	54	53	51	50	48	47	45	44	43	42	40	39	38	37	36
68	59	58	56	55	53	52	50	4.9	47	46	44	44	42	41	40	39	38	37
64	60	58	57	55	54	52	51	49	48	46	45	44	43	41	40	39	38	37
65	61	59	57	56	54	53	51	50	48	47	46	45	43	42	41	40	39	38
66	61	59	58	56	55	53	52	50	49	48	46	45	44	43	42	41	39	38
67	62	60	58	57	55	54	52	51	49	48	47	46	45	44	42	41	40	39
68	62	60	59	57	56	54	53	51	50	49	48	47	45	44	43	42	41	40
69	62	61	59	58	56	55	53	52	50	49	48	47	46	45	44	43	41	40
70	63	61	60	58	57	55	54	52	51	50	40	48	47	45	44	43	42	41
71	63	62	60	59	57	56	54	53	51	50	49	48	47	46	45	44	43	42
72	64	62	61	59	58	56	55	53	52	51	50	48	47	46	45	44	43	42
78	64	63	61	60	58	57	55	54	58	52	50	49	48	47	46	45	44	43
74	64	63	61	60	59	57	58	55	53	52	51	50	49	47	46	45	44	43
75	65	63	62	60	59	58	56	55	54	53	52	50	49	48	47	46	45	44

TABLE XII,

For finding the Weight of Water Vapour, in Troy grains, in each cubic foot of air at each temperature, and for any given vapour tension p, as expressed in inches of mercury, in latitude 22° .

						Темре	BATURE (of Air,					
p.	2 °.	7°.	12°.	17°.	22°.	27°.	32°.	37°.	42°,	47°.	52°.	57°.	62°.
· 0 01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
.003	0.05	0.03	0.02	0.03	0.03	0 02	0.02	0.03	0.03	0.02	0.02	0.02	0 02
*003	004	0.04	0.01	0.04	0.01	0.04	0.03	0 03	0.03	0.03	0.03	0.03	0.03
·004	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.05	0.02	0.05	0.04	0.07	0.04
*005	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.06	0.08	0.08	0.08	0.08	0°05
*006	0.02	0.07	0.07	0.02	0 07	0.02	0.02	0.07	0 07	0 07	0.02	0.07	0.02
*007	0.09	0.09	0.09	0.08	0 08	0.08	0.08	0 08	0.08	0.08	0.08	0.08	0.08
•008	0.10	0.10	0.10	010	0.10	0.08	0.09	0.09	0.09	0.09	0.08	0.09	60.0
.009	0.11	0.11	0.11	0.11	0.11	0 11	0.10	0.10	0.10	0.10	0.10	0.10	0.10
.010	0.15	0.15	0.13	0.15	0.12	0.13	0.13	0.13	0.11	0.11	0.11	0.11	0.11
·020	0.22	0 25	0.21	0 24	0.24	0.24	0 23	0 23	0.53	0.53	0 22	0.53	0.55
•030	0.37	0.37	0 36	0.36	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33
*040	0.50	0.49	049	0.18	0.48	0.47	0.17	0.46	0.46	0.45	0.45	044	0.44
·0 50	0.62	0 61	0 61	0.60	0 59	0.29	0.28	0.28	0.22	0.22	0.26	0.22	0.55
*060	0.74	0.71	0.73	0 72	0.71	0.71	0.70	0.69	0.69	0.68	0.67	0.67	0.66
•070	0.87	0.86	0.82	0.84	0.83	0.82	0.93	0.81	0.80	0.49	0.78	0.78	0.77
*080	0.99	0.88	0.97	0.88	0 95	0.94	0.83	0.92	0.81	0.80	0.80	0.89	0.88
*090	1.13	1.10	1.09	1.08	1.07	1.06	1.02	1.04	1.03	1.02	1 '01	1.00	0.88
100	1:24	1.23	1.51	1.20	1.19	1.18	1.16	1.12	1.14	1.13	1.12	1.11	1.10
*200	2.48	2:46	2.43	2:40	2 38	2.35	2:33	2.31	2-28	2.26	2.24	2.23	2.50
*800	3.72	3.68	3.64	3.61	3.57	3.23	3.49	3.46	3.43	8-39	3.86	3.33	3.30
.400	4.96	4.91	4.86	4.81	4:76	4.71	4.66	4-62	4.57	4.23	4.48	4:41	4.39
•500	6.51	6.14	6.07	6.01	5.95	5.89	5.83	5-77	5.71	5.66	5 60	5.22	5.49
*800	7:45	7:37	7:29	7:21	7.14	7.08	6-99	6-92	6.85	6.79	6.72	6.66	6.29
*700	8.69	8-59	8.20	8'41	8-33	8*24	8-16	8.08	8-00	7.92	7:84	7.76	7:69
.800	9.93	9-82	9.72	9-62	9:52	9:42	9:32	9-23	9.14	9 05	896	8:87	8:79
1900	11.17	11.02	10.93	10.82	10.71	10.60	10.48	10.38	10.58	10-18	10.08	9.98	9.89
1.000	12.41	12:28	12.15	12.02	11.90	11.77	11.65	11.24	11.42	11.81	11:20	11.09	10.99
2.000	24.82	24.28	24:30	24.04	23:79	23.22	23:30	23:08	22.84	22-62	22:40	22.18	21.97

TABLE XII.

For finding the Weight of Water Vapour, in Troy grains, in each cubic foot of air at each temperature, and for any given vapour tension p, as expressed in inches of mercury, in latitude 22°—(continued).

_						TRMPRE	ATURE O	F AIR.					
p.	67°.	72°.	77°.	82°.	87°.	92°.	97°.	102°.	107°.	112°.	117°.	122°.	127^.
•001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
.002	0.02	0.05	0.03	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.03
.003	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
·004	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.07	0.04	0.04	0.01	0.04	0.07
*005	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
*006	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.06	0.08	0.08	0.08	0.06	0.08
•007	0.08	0.08	0.02	0.07	0.07	0.02	0.02	0.07	0.07	0.07	0.07	0.07	0.07
•008	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0 08
•009	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.08	0.09	0 09	0.08	0.09	0.08
.010	011	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
*020	0.22	0.55	0.21	0.21	0.51	0.51	0.51	0.50	0.50	⊍ •20	0.50	0.50	0.50
.030	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0 30	0.30	0 30	0 30	0.50
.040	0.44	0.13	0.43	0.42	0.42	0.42	0.41	0.41	0.40	0.40	0.40	0.39	0.38
·050	0.54	0.24	0.23	0 53	0 52	0.25	0.21	0.21	0.21	0.20	0.20	0.19	0.48
.060	0.62	0°65	0-64	0.63	0.63	0.62	0.62	0.61	0.81	0.60	0.60	0.28	0.28
.070	0.76	0.75	0.72	0.74	0.73	0.73	0.72	0.71	0.71	0.40	0.70	0.69	0.68
.080	0.87	0.86	0.82	0.82	0.84	0.83	0.82	0.85	0.81	0.80	0.80	0.79	0.78
•090	0 98	0.97	0.98	0.95	0.94	0.94	0 93	0.92	0 91	0.30	0.90	0.89	0.8
·100	1.09	1.08	1 07	1.08	1.05	1.04	1.03	1.02	1.01	1.00	0.88	0.88	0.8
200	2:18	2.16	2.14	2.13	2·10	2.08	2.08	2.04	2.02	2.00	1.99	1.97	1.9
*300	3.58	3.53	3.50	3.17	3.12	3.12	3.00	3.06	3.03	3.01	2.98	2.96	29
· 40 0	4:35	4:31	4.27	4.23	4.18	4.16	4.12	4.08	4.05	4.01	3.38	3.94	39
•500	5.44	5.39	5:34	5.59	5.24	5.50	5.15	5.10	5 06	5:01	4.97	4.93	4.8
· 6 00	6 53	6.47	6.41	6-35	6.59	6.53	6.18	6.15	6.07	6.02	5.96	5.91	5.8
·700	7.62	7:55	7.48	7:41	7:34	7:27	7-21	7:14	7.08	7:03	6.96	6.90	6.8
.800	8.71	8.62	8.24	8:47	8-39	8:31	8:24	8.16	8.18	8.02	7.95	7:88	7.8
•900	9.79	9.70	9:61	9.52	9-44	9:35	9.27	9.19	9.10	8.03	8.95	8.87	87
1.000 -	10.88	10.78	10.68	10.28	10.49	10.39	10:30	10.51	10.12	10.03	9.94	9.86	9.2
2.000	21.77	21.26	21.36	21.16	20.97	20.78	20.59	20.41	20.23	20.06	19:88	19.71	19.5